

POOL, SPAS, HOT TUB PACKAGE

PART I – Zoning, Engineering, Sewer and Health Approvals.

1. Application Forms.
2. Directions and Information.

PART II – Building Permit.

1. General Comments, Purpose.
2. Forms.
3. Heads – Up Reminders.
4. Inspections.
5. Code Language & Commentary.
6. Pictures and Drawings to Assist You.

PART I – POOL PACKAGE

NOTE: You need to get through PART I first to get to PART II. (Review Both)

Fill out the following appropriate attached forms:

- Zoning Form – (860) 632-3422
- Engineering Form – (860) 632-3420
- Sewer Form - (860) 632-3430
- Health Form - (860) 632-3426
- Provide plan view sketch and attach it to each of the forms above.

You will need to submit a plan view (bird's eye view) sketch of your property showing the location of – pool, deck, fences, cabana, well, septic tank, leaching field, reserve area and any abandoned tanks. You will also need to show the distances from the proposed pool and deck, to all property lines, wells, and septic tanks/systems (**see attached info on distances to septic system and wells**).

If you have a well or septic system, you will have to fill out a health form (see attached) and the above mentioned plan view for review by the Health Department.

As per zoning policy, all pools shall be located a minimum 10' from property lines measured from the inside edge of the pool.

The Engineering Department will review your project for possible grading problems and easements.

A minimum \$500.00 Erosion & Sedimentary Control Bond may be required by the Zoning Department.

When all zoning/engineering requirements are met, a signed zoning approval will be issued.

When all Health Department requirements are met, a signed approval will be issued.

When all Sewer Department requirements are met, a signed approval will be issued.

When all approvals are issued (the forms are signed by the department head), we will call you or you will receive in the mail the zoning approval. At this point you can submit the forms and requirements found in **PART II**.

It is your responsibility to check on the status of your approvals.

PUBLIC HEALTH POOL REQUIREMENTS
19-13-B33b & 19-13 B34

- A. Type of sewage system – Public – or Septic Surface Sewage System – provide sketch of pool location with reference to water line, septic systems and other drainage.
- B. Subsurface Sewage System (SSS): Property must contain a code complying area that can accommodate a below or above ground pool as well as a septic system reserve area.
- C. There shall be no above-ground pool within 10' of any part of SSS.
- D. There shall be no in-ground pool within 25' of a SSS.
- E. There shall be no in-ground pool within 10' of a public water supply or 50' from a private potable well supply.
- F. There shall be **no discharge** of filter backwash water into sub-surface sewage system (septic tank and leach field). Proper discharge can be made onto surface of ground as long as it is contained on the property. Any runoff beyond the property can constitute a hazard or nuisance.

There shall be no below ground or cross-connection between pool water system and household potable water system.

HEALTH DEPARTMENT PLAN REVIEW

- FOR:
1. Addition up or out, 3 Season Rooms, Decks - Fee \$100.00
 2. Garages, Sheds, Pools – Fee \$100.00
 3. New Food Establishments – Fee \$100.00
 4. Commercial Food Establishment Retrofits – Fee \$100.00
 5. Plan Review – Fee \$100.00
 6. Septic Plan Review – Fee \$100.00
 7. Soil Testing – Fee \$120.00 per lot
 8. B100a Review – Fee \$100.00

DATE: _____

STREET: _____

PROPERTY OWNER: _____

TELEPHONE NUMBER: _____

Signature of Owner: _____
Signature of owner

Print name: _____
Print name

Signature of Agent: _____
Signature of Agent

Print name: _____
Print name of Agent

Telephone number of Agent: _____

Email Address: _____

DESCRIBE PROJECT: _____

Please submit any documents that will help in describing your project.

NOTE: The property owner is responsible for providing accurate and appropriate information.

This approval is for Health Department only.

Approve: _____ Date: _____

Rejected: _____ Date: _____

Comments: _____

☐ Plan Review fee \$100.00

Date

Check #

☐ Plot Plan of Property

Healthdept/Applications-formshealthdept/HealthDepartPlanReviewApplic

PRE-CONSTRUCTION CERTIFICATE OF ZONING COMPLIANCE

Date of Application _____
Applicant Name _____
Applicant Address _____
Owner Name _____
Address of proposed activity _____
Phone Number: Day _____ Evening _____ Cell _____

_____ Addition _____ Accessory Building _____ Filling _____ Garage
_____ Fuel/Gas Tank _____ Sign _____ Swimming Pool _____ Other

_____ New Construction - Foundation As-Built must be approved before building construction

Erosion and Sediment Bond Required _____ Yes _____ N/A E & S Bond # _____

Zoning District _____ Assessor Map# _____ Block# _____ Lot# _____

Is there Wetlands/Vernal Pool or Watercourse on this Property or within 100 feet of the requested activity _____ Yes _____ No

Is an Inland Wetland Permit Required? _____ Yes _____ No

Permit# _____

Description of proposed activity: _____

Dimensions: Height _____ Width _____ Length _____
Living Floor Area: First Floor _____ Second Floor _____ Garage _____
Special Permit Required: _____ Yes _____ No Record Volume: _____ Page: _____
Are the approved mylars signed and filed in the Town Clerk's office: _____ Yes _____ N/A
Map file numbers _____ to _____

This request, if approved is based upon information and plot plan submitted.

Falsification by misrepresentation or omission, or failure to comply with the conditions of approval shall constitute a violation of the Town of Cromwell Zoning or Wetlands Regulations.

Signature: _____

Check One: _____ Owner _____ Applicant _____ Agent

Condition of approval: _____

Approved by: _____
Development Compliance Officer

Date: _____

As per CGS 8-3F let this serve to inform you the applicant, that you may provide notice that a Certificate of Zoning Compliance has been issued. This notice should be in conformity with the provisions of CGS 8-3F and CGS 8-7. Be aware, an aggrieved person may appeal to the Zoning Board of Appeals within 10 days in accordance with the provisions of CGS 8-7.

TOWN OF CROMWELL
Zoning Compliance/Engineering Review
(Interdepartmental Requests)

1. Zoning Date of Application: _____ Engineering Date of Application: _____
2. Application: ☐ General Site Plan Review ☐ Final/Grading As-Built Plan Review
 ☐ Foundation As-Built Review ☐ Pools/Additions/Miscellaneous Plan Review
3. Applicant Name: _____ Telephone#: () _____
- Address: _____ City/Town: _____ State: _____ Zip Code: _____
4. Contractor(s) Name: _____ Telephone#: () _____
- Address: _____ City/Town: _____ State: _____ Zip Code: _____
5. Location of Proposed Activity: _____ Type of Work: _____

6. Application Review

	General Site Plan Review	Foundation As-Built	Grading As-Built Plan Review	Pools/Additions/ Misc. Structure Review
Approve as submitted	()	()	()	()
Approved w/conditions	()	()	()	()
Not approved	()	()	()	()

Comments: _____

Reviewed by Zoning: _____ Reviewed by Engineering: _____

Date: _____ Date: _____

SEWER APPROVAL/CONTACT FORM_____
DATE_____
SERVICE ADDRESS_____
PROPERTY OWNER'S NAME

(_____)_____

PROPERTY OWNER'S PHONE_____
CONTACT NAME (CONTRACTOR/AGENT)

(_____)_____

PHONE**WHAT TYPE OF PROJECT ARE YOU DOING?**

____ New Construction (Single-Family, Multi-Family, Commercial, etc.)

____ Addition (Single-Family, Conversion to Multi-Family, Commercial etc.)

Other: (Please provide details)_____

**CONTACT SEWER DEPARTMENT FOR APPROPRIATE FORMS, PERMITS, AND
INFORMATION RELEVANT TO YOUR PROJECT.**

RETURN COMPLETED FORM(S) TO:**TOWN OF CROMWELL****SEWER DEPARTMENT @ 41 WEST STREET, CROMWELL, CT 06416****PHONE (860) 632-3430 FAX (860) 632-3477****APPROVED BY:** _____ **DATE:** _____**REJECTED BY:** _____ **DATE:** _____**COMMENTS:** __________

2016 CONNECTICUT STATE BUILDING CODE
EFFECTIVE DATE: OCTOBER 1, 2016

Appendix G
SWIMMING POOLS, SPAS, AND HOT TUBS

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the lot of a one – or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the building official, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the jurisdiction,

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.

SECTION AG102 DEFINITIONS

AG102.1 General. For the purposed of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

(Amd) **RESIDENTIAL.** For the purpose of this Section, "Residential" means situated on the premises of a detached one- or two-family dwelling or which is accessory to an individual one-family townhouse for the exclusive use of its residents and invited guests. (CT 2016)

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610 mm) deep. This includes in-ground, above-ground, and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosed structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in compliance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground pools and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in compliance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105

BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this appendix shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

(AMD) AG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by a barrier which shall comply with the following:

1. The top barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2 $\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1 $\frac{3}{4}$ inches (44 mm).

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches (44 mm).
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate:
and
 - 8.2. The gate and barrier shall have no opening larger than $\frac{1}{2}$ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
9. Where a wall of dwelling serves as part of the barrier, one of the following conditions shall be met:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; or
 - 9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable as long as the degree of protection afforded is not less than protection afforded by Item 9.1 or 9.2 described above.
10. CT AMD. Where an above-ground or on ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure and the means of access is a ladder or steps, the ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9, inclusive.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located to prohibit permanent structures, equipment or similar objects from being used to climb them.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG108, shall be exempt from the provisions of this appendix.

(ADD) AG105.6 Temporary enclosure. A temporary enclosure shall be installed prior to the electrical bonding inspection of any in-ground swimming pool unless the permanent barrier specified in Section AG105.2 is in place prior to the commencement of installation. The temporary enclosure shall be a minimum of 4 feet (1219 mm) in height, shall have no openings that will allow passage of a 4-inch sphere and shall be equipped with a positive latching device on any openings.

(ADD) AG105.7 Pool alarm. Pursuant to section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool. As used in this section, "pool alarm" means a device that emits a sound of at least 50 decibels when a person or object weighing 15 pounds or more enters the water in a swimming pool.

Exception: Hot tubs and portable spas shall be exempt from this requirement.

SECTION AG106
ENTRAPMENT PROTECTION FOR SWIMMING
POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

SECTION AG107
ABBREVIATIONS

AG107.1 General

ANSI- American National Standards Institute
11 West 42nd Street
New York, NY 10036

APSP- Association of Pool and Spa Professionals
NSPI- National Spa and Pool Institute
2111 Eisenhower Avenue
Alexandria, VA 22314

ASCE- American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 98411-0700

ASTM- ASTM International
100 Barr Harbor Drive,
West Conshohocken, PA 19428

UL- Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096

SECTION AG108 STANDARDS

AG108.1 General.

ANSI/NSPI

ANSI/NSPI-3-99 Standard for
Permanently Installed Residential Spas.....AG104.1

ANSI/NSPI-4-99 Standard for Above-ground/
On-ground Residential Swimming Pools.....AG103.2

ANSI/NSPI-5-2003 Standard for
Residential In-ground Swimming Pools.....AG103.1

ANSI/NSPI-6-99 Standard for
Residential Portable Spas.....AG104.2

ANSI/APSP

ANSI/APSP-7-06 Standard for Suction
Entrapment avoidance in Swimming Pools,
Wading Pools, Spas, and Hot Tubs and
Catch Basins.....AG106.1

ASCE

ASCE/SEI-24-05 Flood Resistant
Design and Construction.....AG103.3

ASTM

ASTM F 1346-91 (2003) Performance
Specification for Safety Covers and Labeling
Requirements for all Covers for swimming Pools,
Spas and Hot Tubs.....AG105.2, AG105.5

UL

UL 2017-2000 Standard for General-purpose
Signaling Devices and Systems- with Revisions
Through June 2004.....AG105.2

ENERGY CODE REQUIREMENTS FOR POOL

N1103.9 (R403.9) Pools and in-ground permanently installed spas (Mandatory). Pools and in-ground permanently installed spas shall comply with Sections N1103.9.1 through N1103.9.3.

N1103.9.1 (R403.9.1) Heaters. All heaters shall be equipped with a readily *accessible* on-off switch that is mounted outside of the heater to allow shutting off the heater without adjusting the thermostat setting. Gas-fired heaters shall not be equipped with constant burning pilot lights.

N1103.9.2 (R403.9.2) Time switches. Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this requirement.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar-and-waste-heat-recovery pool heating systems.

N1103.9.3 (R403.9.3) Covers. Heated pools and in-ground permanently installed spas shall be provided with a vapor-retardant cover.

Exception: Pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy computed over an operating season.

PART II – BUILDING PERMIT

Fill out the following attached forms only if you've completed **PART I**. Completed means all appropriate approved signatures are acquired:

- Building Permit Application.
- Copy of Workers' Comp. or the Workers' Comp. Affidavit Form.

Please review the following Code Language/Requirements and pictures/drawings. Pick out the drawing/drawings that will apply to your project. Dave Jolley or John Egan can help you with this part. Please call to set up an appointment with Dave or John at (860) 632-3428, Monday thru Friday, 8:30 – 4:00.

HEADS-UP REMINDERS:

- **In-ground Pool – the owners of the land will make application for the pool barrier / NOT THE POOL INSTALLERS.**
- Submit an **engineered** print for all in ground swimming pools.
- Please find the attached electrical checklist for your swimming pool. This may not be all inclusive of your project. You or your electrician will need to pull a permit for the electrical work.
- If you have a gas heater, then that will also need a permit from your plumber or yourself.

INSPECTIONS:

- Underground electrical bonding and conduits before backfill.
- Underground gas piping – before backfill.
- Electrical – timer, G.F.C.I. circuit, twist-lock, convenience outlet, bonding, etc.
- Inspection of pool barrier and door alarms.
- **Final inspection before using the swimming pool!!!**

BUILDING PERMIT APPLICATION/BUILDING PERMIT- TOWN OF CROMWELL

07/2017

11/2017

41 West Street, Cromwell CT 06416 – Tel. (860) 632-3428**(Please Print or Type all Entries) Fax- (860) 632-3477****DATE:** _____

Estimated Cost of Construction..... \$ _____
(Including Value of Labor & Material)
Building Fee..... \$ _____
Plan Review Fee..... \$ _____

C.O. Fee..... \$ _____
State Education Fund Fee..... \$ _____
TOTAL..... \$ _____

Job Site Address: _____

Owner's Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Home Phone: _____

Cell Phone: _____

Email: _____

FEE INCLUDES MECHANICALS: Y N**APPLICANT PLEASE NOTE: Call 24 hours in advance for inspections and for final inspection before use.**

Name: _____

Business Phone: _____

Address: _____

Cell Phone: _____

City: _____ State: _____ Zip: _____

Home Phone: _____

Business Name: _____

Email: _____

PURPOSE OF PERMIT: _____

_____**LICENSE NUMBERS:**

Elec. Contractor License _____

Home Improvement Reg. No. _____

Plumbing Contractor License _____

New Home Const. Cont. No. _____

H.V.A.C. Contractor License _____

Swimming Pool Builder No. _____

CERTIFICATION: I hereby certify that: I am the owner of record of the named property or that the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an authorized agent, and we agree to conform to applicable laws, regulations and ordinances. We further understand that it is our responsibility to request all required inspections, to ascertain the results of all required inspections and to call for a final inspection prior to use. All information contained within is true and accurate to the best of my knowledge and belief.

Signature: _____

Building Official: _____

Print name: _____

Date Approved: _____

STATEMENT REGARDING WORKERS' COMPENSATION INSURANCE/AFFIDAVIT

Public Act 96-216 requires that any persons engaged in construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair work within the state be covered by Workers' Compensation insurance, and produce proof of such coverage to the local building official prior to issuance of a building permit, unless they are specifically exempted under the law. This Statement must be completed by any individual who is claiming exemption under the law or is providing a sworn notarized affidavit.

(Property Address)

I, the undersigned, am the:

- ☐ Owner in Fee of the above referenced Property, or;
☐ Building Permit applicant and owner/agent of a contracting business known as:
-

and located at: _____

- ☐ I am the property owner and will be performing all the construction work personally at the above cited property.
- ☐ I am the sole proprietor of the above business, and have no employees as defined under Section 31-275 of the Workers' Compensation Act, as amended.
- ☐ I am the Owner/Agent of the above business ☐ acting as the G.C. I will provide the Town Building Department with ☐ Workers' Compensation Certificate of Insurance, or ☐ a sworn notarized affidavit stating that I will require proof of Workers' Compensation Insurance for all those employed on the job site in accordance with the provisions of the Workers' Compensation Act.
- ☐ I am the sole proprietor or property owner and will be acting as the general contractor. I will provide the Town Building Department with ☐ Workers' Compensation Certificate of Insurance, or ☐ a sworn notarized affidavit stating that I will require proof of Workers' Compensation Insurance for all those employed on the job site in accordance with the provisions of the Workers' Compensation Act.

I understand and agree that failure to comply with the insurance requirements of state law will subject me to civil penalties thereunder. I further understand that falsification in any way of the facts or conditions I have represented herein constitutes a false statement for which penalties under the law apply.

Legal Signature:

Date:

Print Name:

(Notary)

☐ Owner of Property or Business ☐ Corporate Officer

TOWN OF CROMWELL POOL INFORMATION

**The following may not be all-inclusive of your project.
Always reference the latest adopted State Building Code.**

GENERAL/ENCLOSURE:

1. Obtain zoning, sewer, tax approvals (etc.)
2. Provide at least one means of egress (exit) from the pool enclosure. See attached ANSI/NSPI-4-1999.
3. Pool equipped with filtration system.
4. Barrier (fence, pool wall, etc.) shall not be less than 48" in height.(AG105)
5. Openings shall not allow passage of a 4" sphere.
6. No indentations/protrusions in solid barriers.
7. Horizontal rails less than 45" apart on inside barrier; No greater than 1-3/4" vert. Spacing.
8. Horizontal rails spaced 45" or more vertical/pickets less than 4".
9. Maximum 2 1/4" square chain link mesh openings.
10. Maximum 1 3/4" diagonal openings (lattice, chain link w/ slats, etc.)

PEDESTRIAN ACCESS GATES, DOOR ALARMS, OTHER GATES (105.2-8)

11. Gates shall open outward, away from pool.
12. Gates shall be self-closing/ self-latching.
13. Gate latches less than 54" above ground shall be inside gate and gate materials shall have openings 1/2" maximum within 18" of the latch, and the latch shall not be less than 3" below the top of gate.
14. Other gates shall have a self- latching device.
15. Alarms for doors leading directly into the pool – shall be listed and labeled in accordance with UL 2017. (Ag105.2, 9.2)
16. Touch pads & switches located 54" minimum above floor.
17. Provide pool alarm. (AG 105.7)

ELECTRICAL

18. At least one 125 v. convenience receptacle between 6' to 20' from pool walls and GFCI protected.
19. Pump receptacle within 6'- 10' from inside walls of the pool shall be GFCI, single, grounding, locking types.
20. Pump receptacle grounding conductor not less than #12AWG; insulated. (Romex not allowed outside of structure).
4 separate THHW insulated min #12 AWG conductors.
21. All light fixtures 5-10' from pool shall be GFCI.
22. Switches shall be not less than 5' horizontally from pool. *Exception:* when located behind a solid barrier.
23. Maximum pool equipment flex cord length is 3' (20A or less). *Exception:* for underwater lighting fixtures.
24. Wiring method type/ burial depths
 - a) Rigid metal conduit (RMC) not less than 6"
 - b) Intermediate metal conduit (IMC) not less than 6"
 - c) Rigid non-metallic conduit (NMC) not less than 18"
25. Bonding required; #8 AWG solid copper, for the following:
 - a) Structural reinforcing (rebar) of concrete pool.
 - b) Walls of bolted or welded metal pools.
 - c) All metallic parts of pool structure.
 - d) All fixed metal parts within 5' horizontally from pool edge.
 - e) All pump motors, filter casings and other metal electrical equipment associated with the pool.
 - f) Provide bonding grid with four uniformly spaced points of attachment. #8 solid copper conductor 18" to 24" from pool wall 4" to 6" below grade.
 - g) Pool water heaters as bonded/ installed per manufacturer.
 - h) Pool water bond with conductive area 9 square inches in contact with pool water.
26. Pool heaters -- Provide a on/off switch. If gas, no continuously burning pilot lights. (N1103.8.1, 2009 IRC)
27. Time clock for pool filter motor (N1103.8.2. 2009 IRC)

Above Ground Pools (2014 NEC)

The following may not be all-inclusive of your project. Always reference the latest adopted State Building Code.

Pump receptacle: Single, locking, grounding type, GFCI, at least 10' or nor less than 6' from the inside of pool wall (680.22 (A)(2) if they meet all the following conditions.

Conduit
(680.21(A) (1))

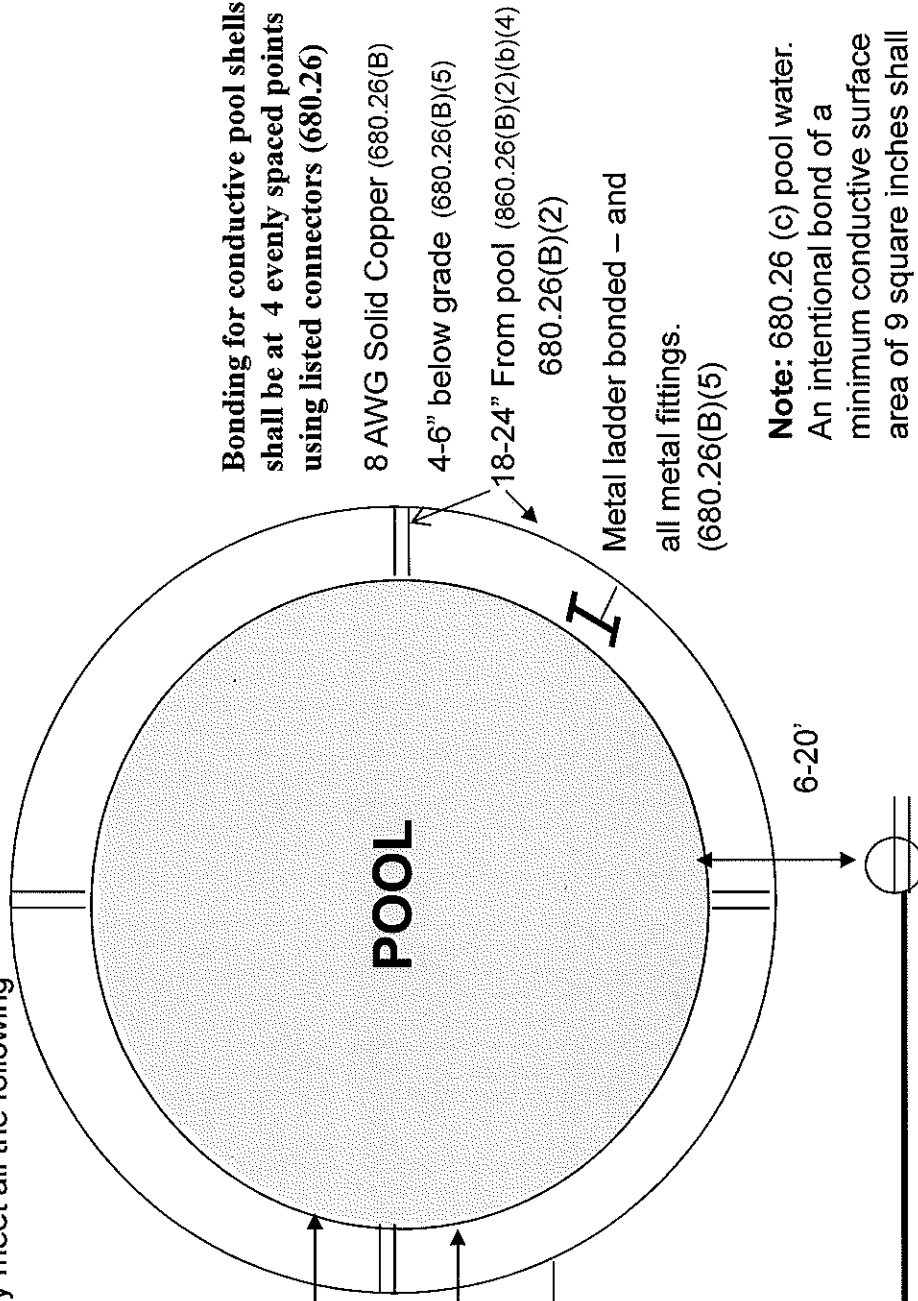
10'

6'

GFCI

Flexible Cord less than 3' with at least 12 AWG copper
(680.21(A)(5))

Motor



Bonding for conductive pool shells shall be at 4 evenly spaced points using listed connectors (680.26)

8 AWG Solid Copper (680.26(B))

4-6" below grade (680.26(B)(5))

18-24" From pool (860.26(B)(2)(b)(4))
680.26(B)(2)

Metal ladder bonded – and all metal fittings.
(680.26(B)(5))

Note: 680.26 (c) pool water.
An intentional bond of a minimum conductive surface area of 9 square inches shall be installed in contact with the pool water.

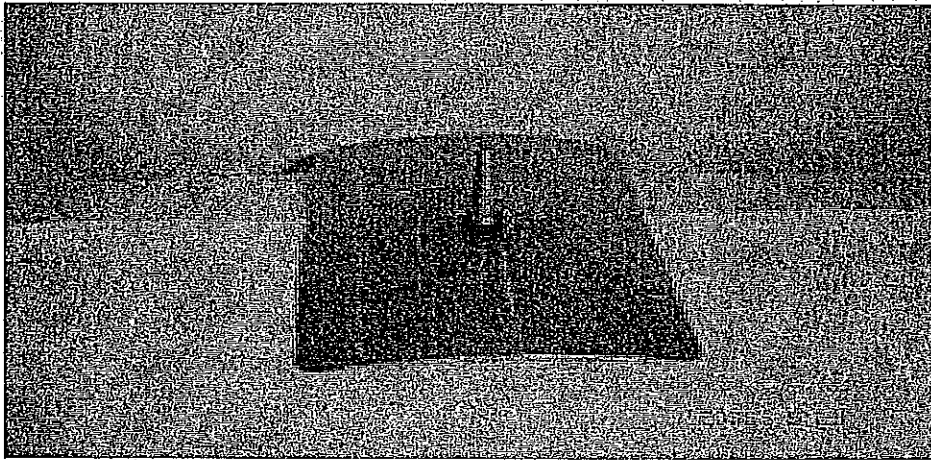
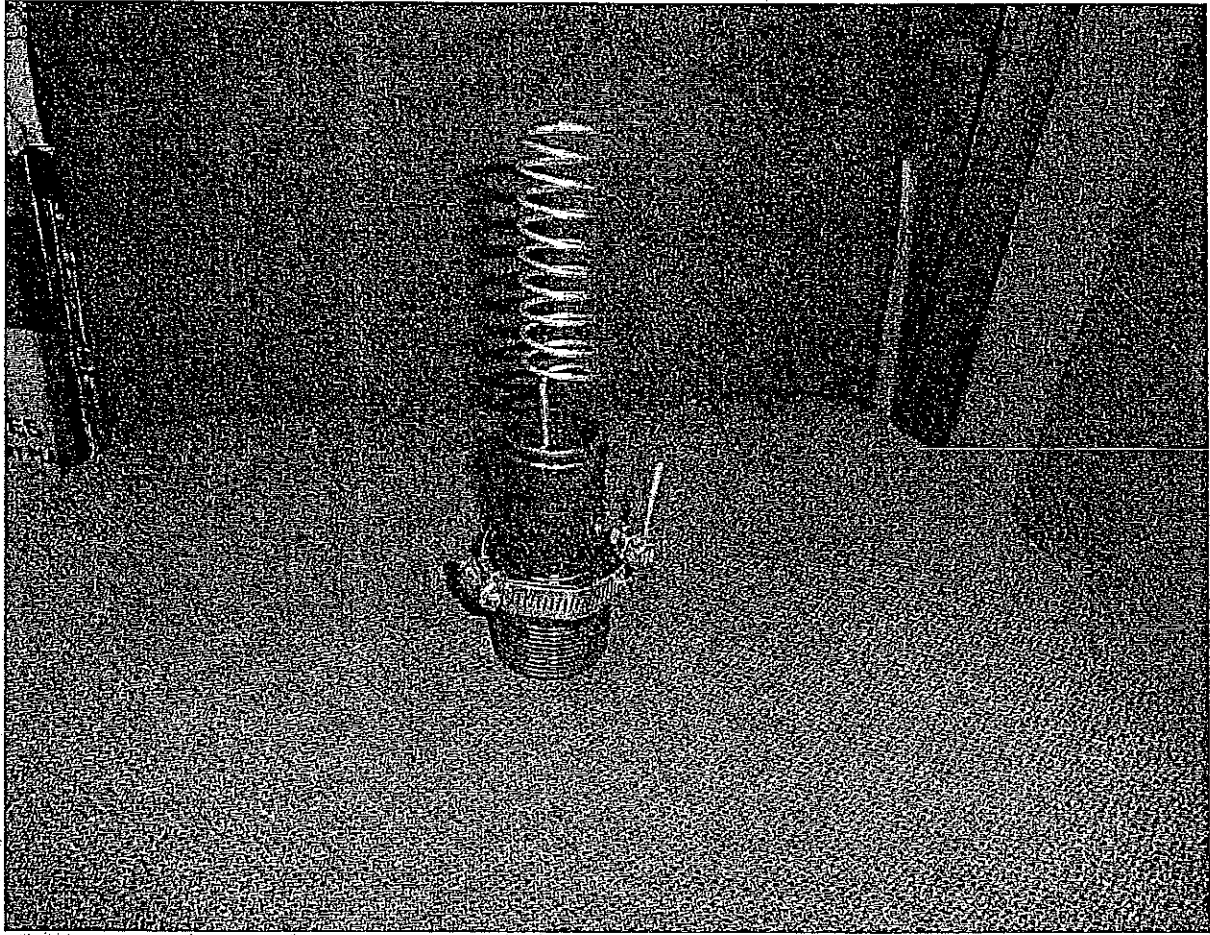
125 volt 15- or 20-ampere receptacle on general purpose branch circuit, more than 6', and less than 20' from inside wall of pool. Must be GFCI protected.
(680.22(A) (3))

Equipotential Bonding

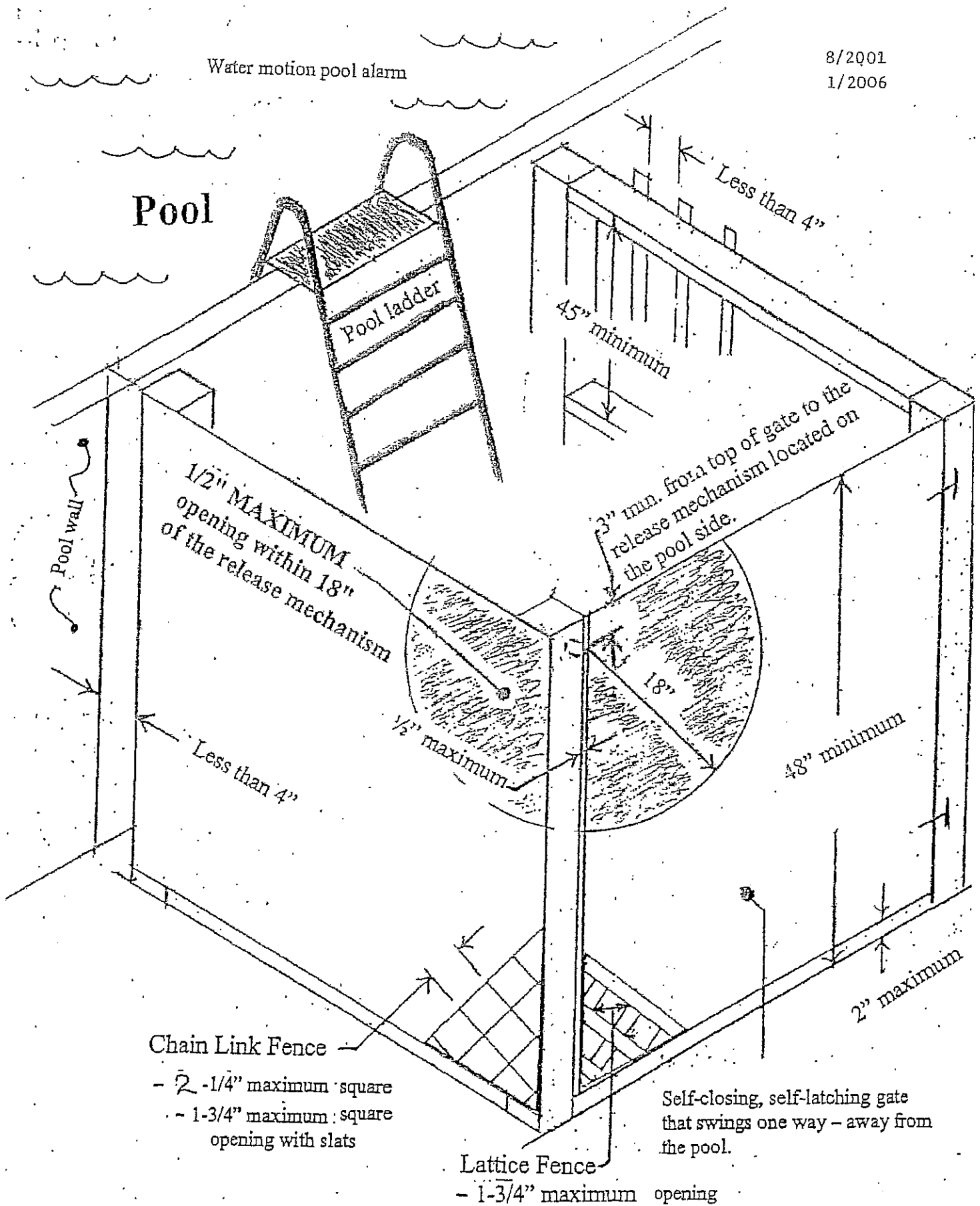
You'll bury a continuous loop of 8 AWG solid copper conductor around the pool ^{680.26(B)(2)(b)(1 & 2)}. The loop should be 4-6" deep ^{680.26(B)(2)(b)(5)}, and between 18-24" from the pool ^{680.26(B)(2)(b)(4)}. You'll then bond the frame of the pool to this loop, at 4 uniformly spaced points ^{680.26(B)(2)}. Next you'll bond the pool water to the loop, using a special bracket on the filter basket ^{680.26(C)}. Finally, the loop is bonded to the filter motor ^{680.26(B)(6)}.

Additional items to be bonded

- Metal ladder ^{680.26(B)(5)}
- Concrete pads within 3' of the pool ^{680.26(B)(2)}
 - Underwater Lighting ^{680.26(B)(4)}
 - Underwater Audio Equipment ^{680.27(A)}
- Electrically Operated Pool Covers ^{680.27(B)}
 - Deck Area Heating ^{680.27(C)}



Pool



ISOMETRIC VIEW

Pool

Pool ladder

Pool wall

Less than 4"

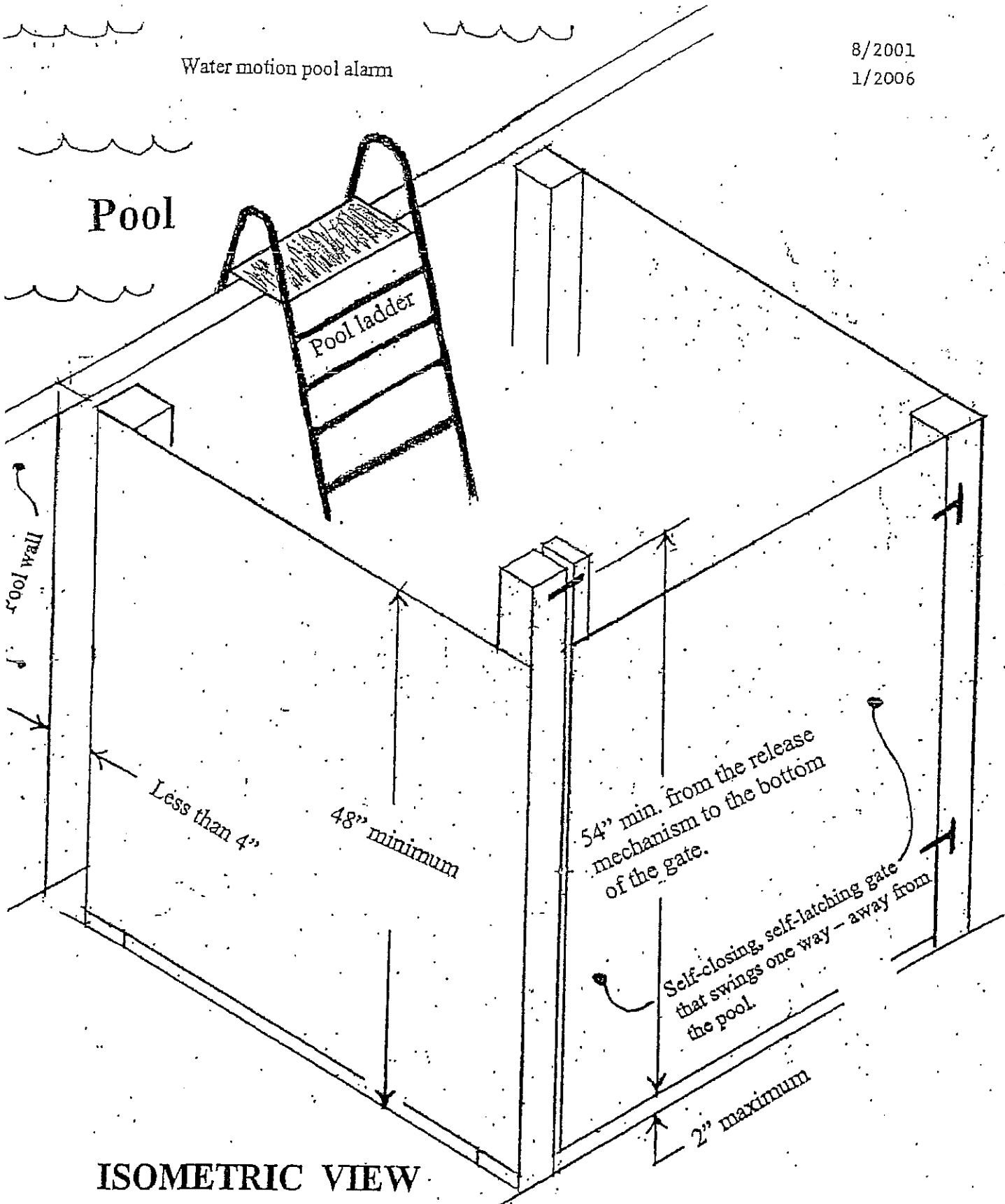
48" minimum

54" min. from the release mechanism to the bottom of the gate.

Self-closing, self-latching gate that swings one way - away from the pool.

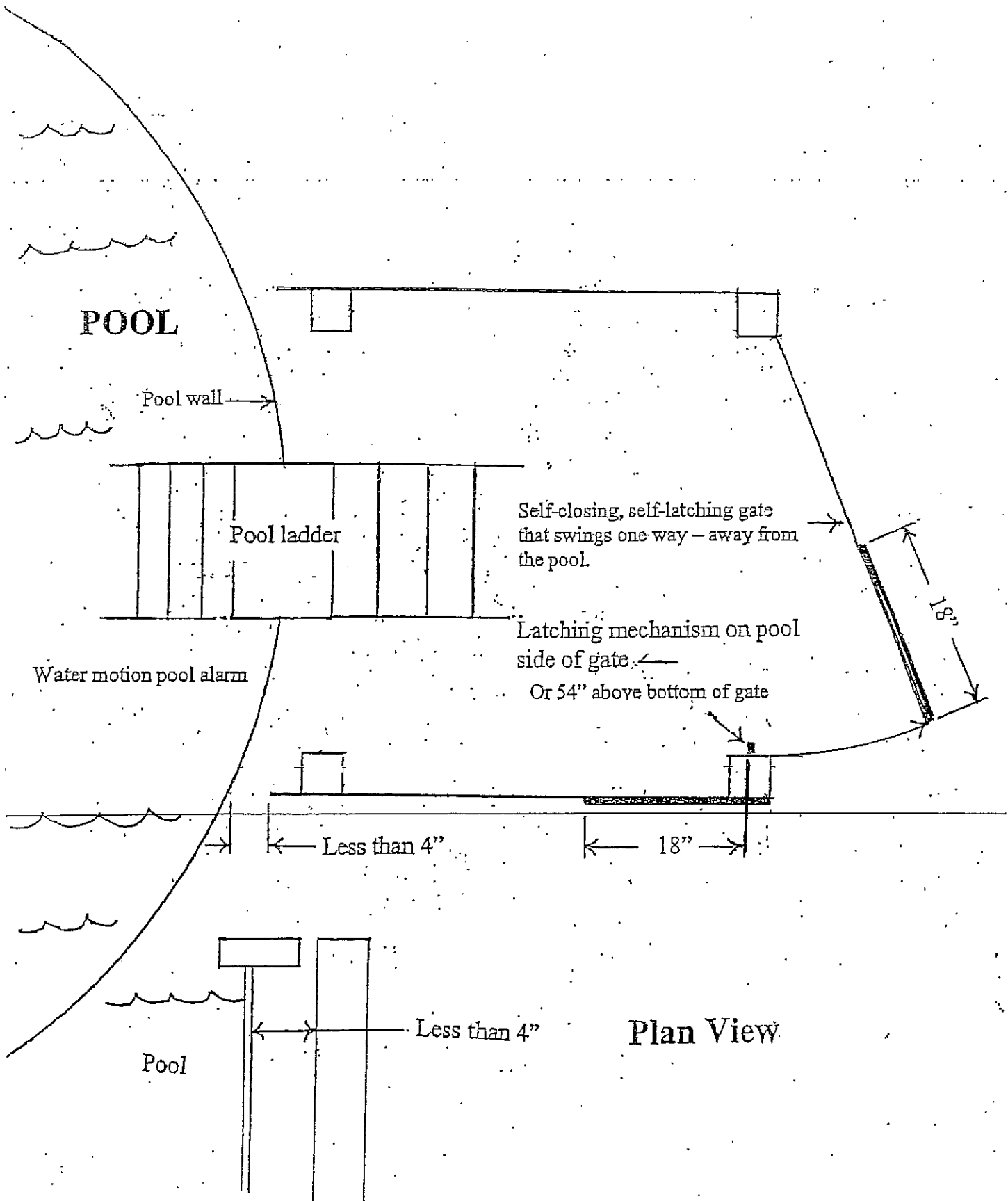
2" maximum

ISOMETRIC VIEW

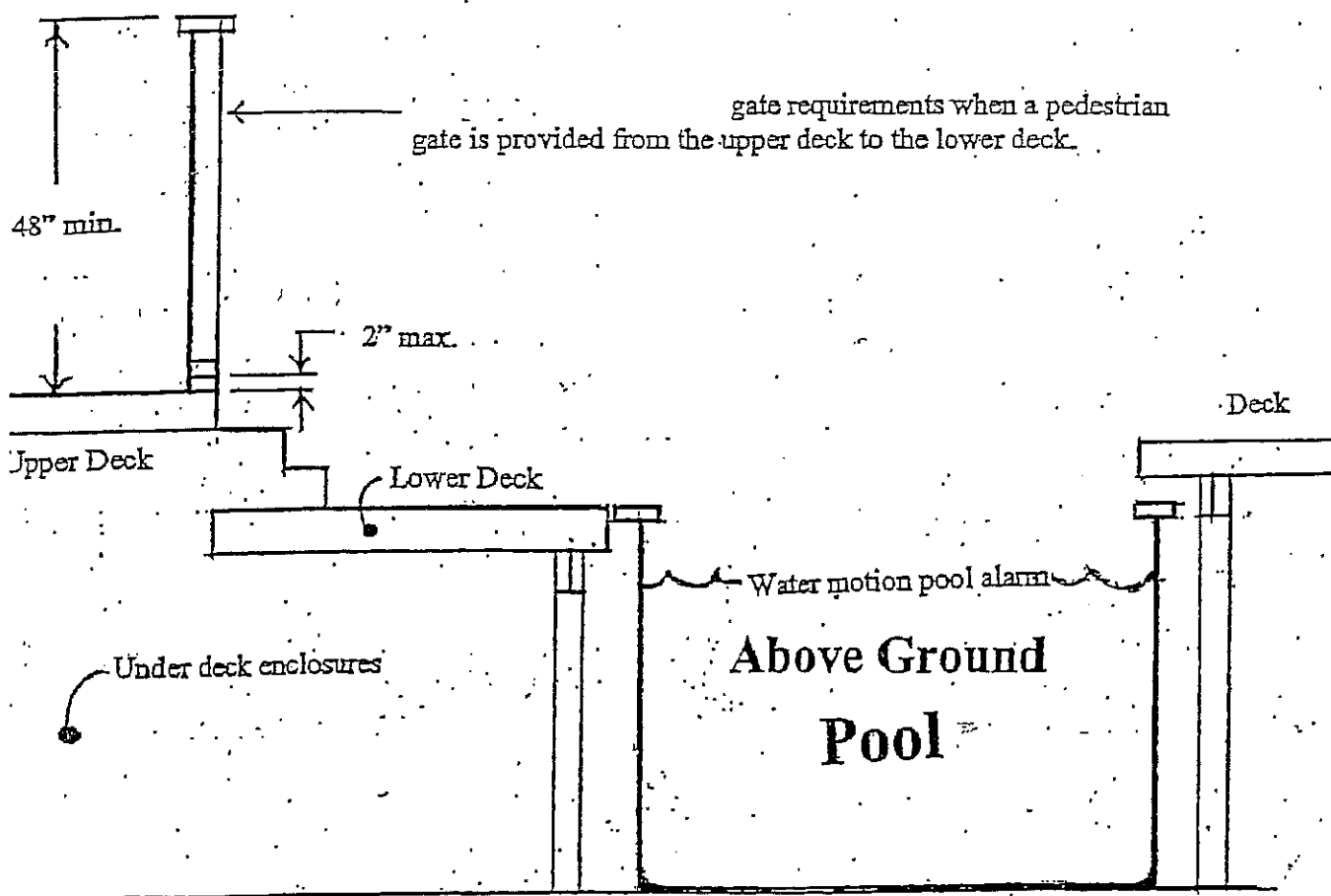


8/2001

1/2006

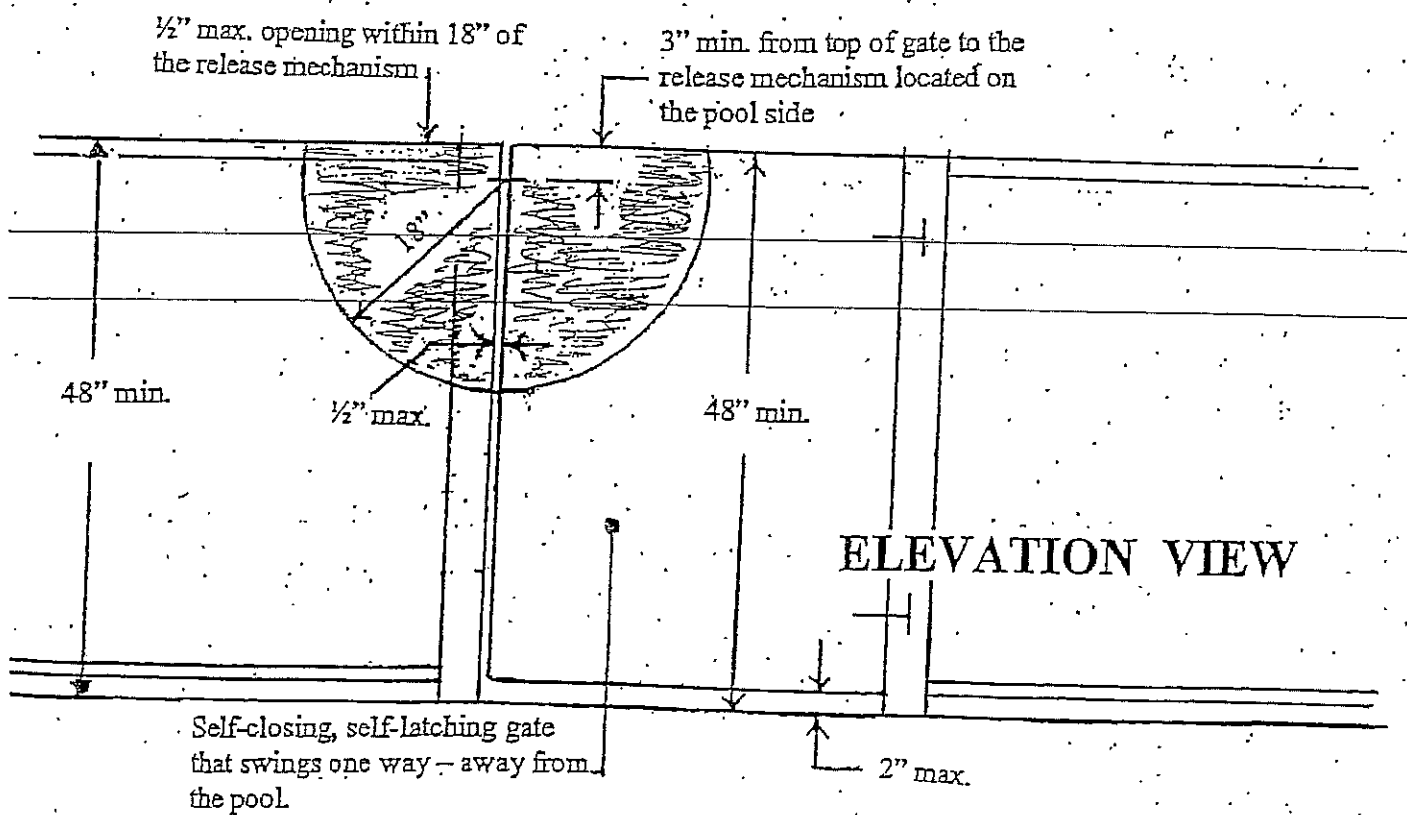
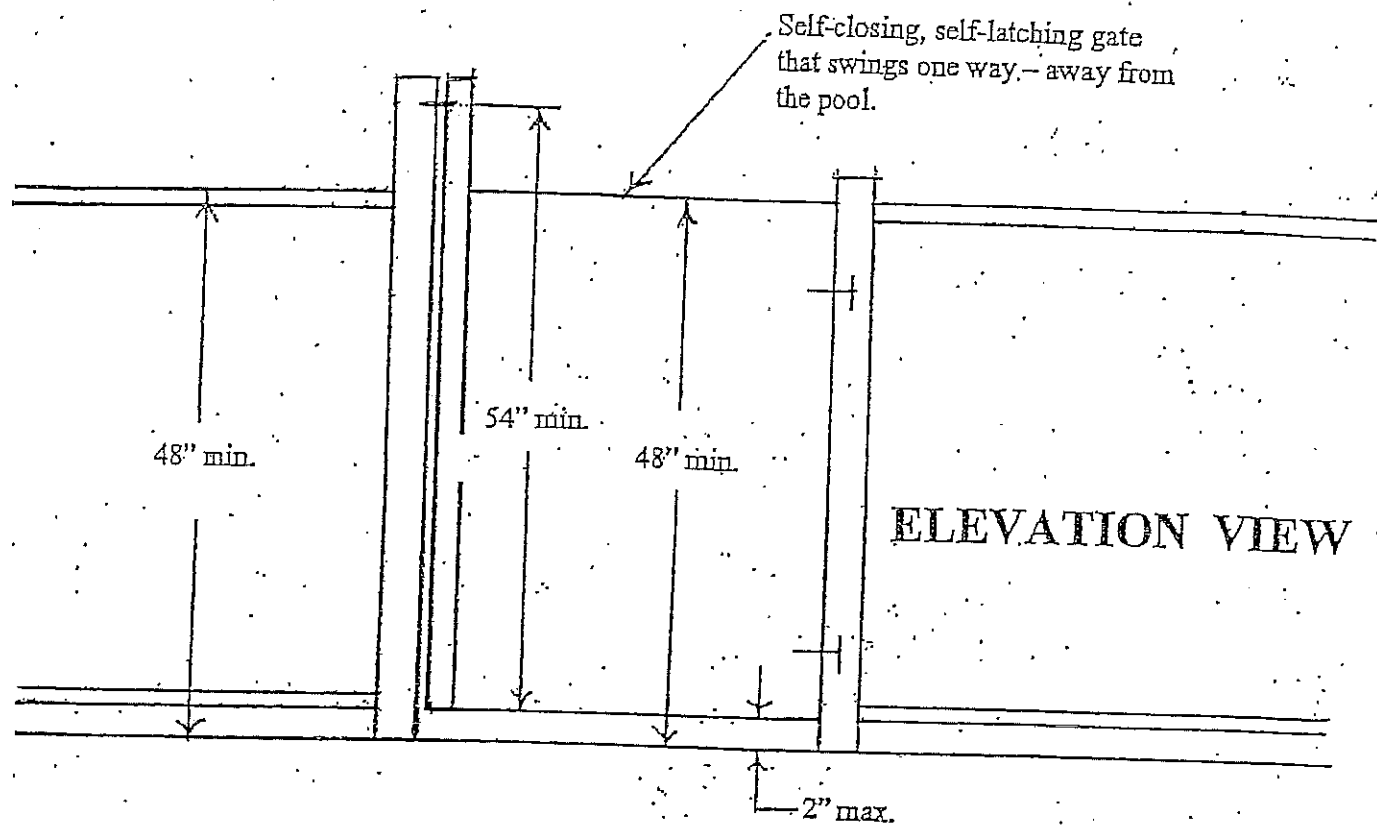


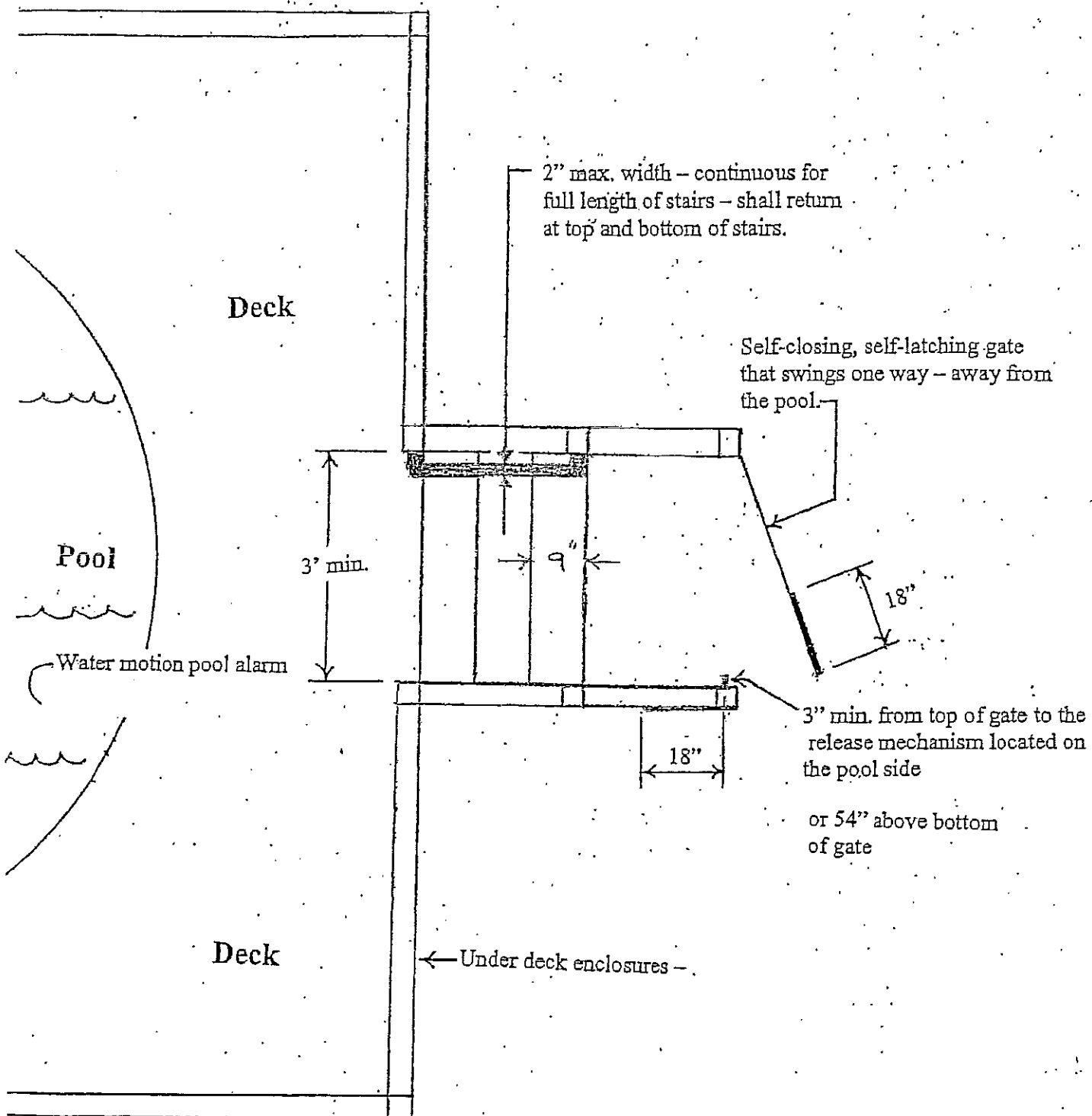
Cross-section – Multi-level Decks & Pool



8/2001

1/2006





Plan View

8/2001

1/2006

Pedestrian gate

Self-closing, self-latching gate
that swings one way - away from
the pool

4' high min. - barrier - fence

House

Door to house

Self-closing,
self-latching
or

Door alarm

or

power safety cover

Storm door

POOL

Water motion pool alarm

C.G.S. 29-265a

Sliding glass door to house

Self-closing, self-latching

or Door alarm

or power safety cover

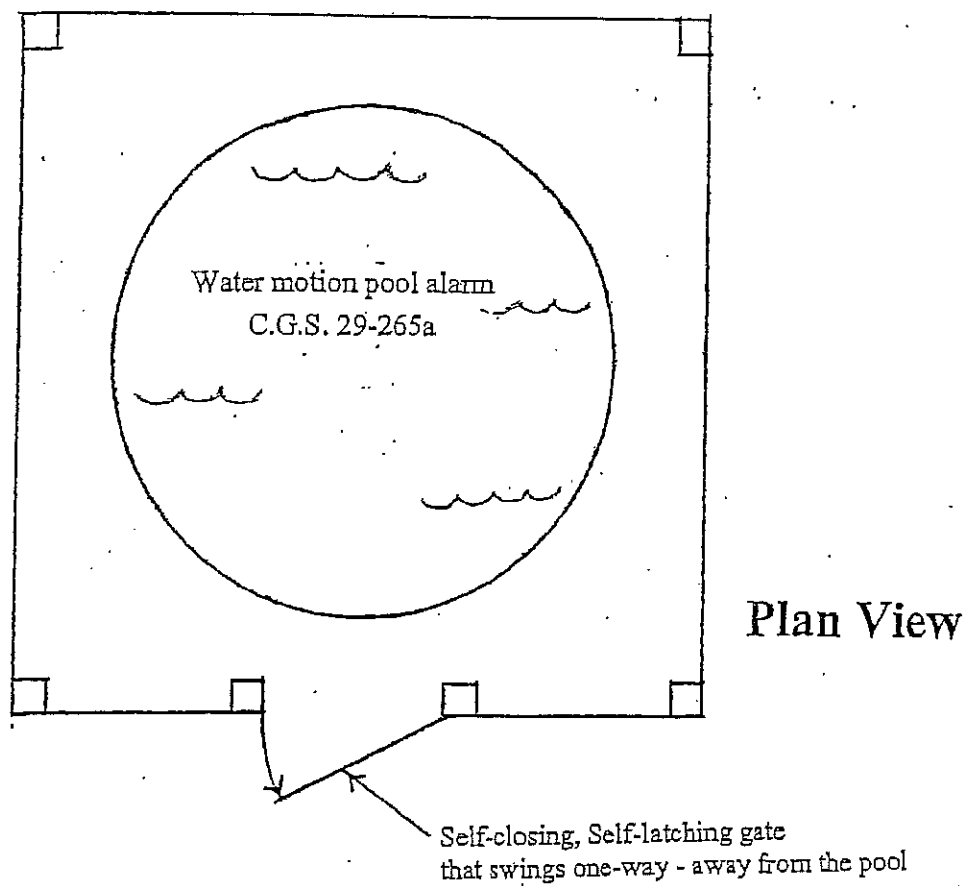
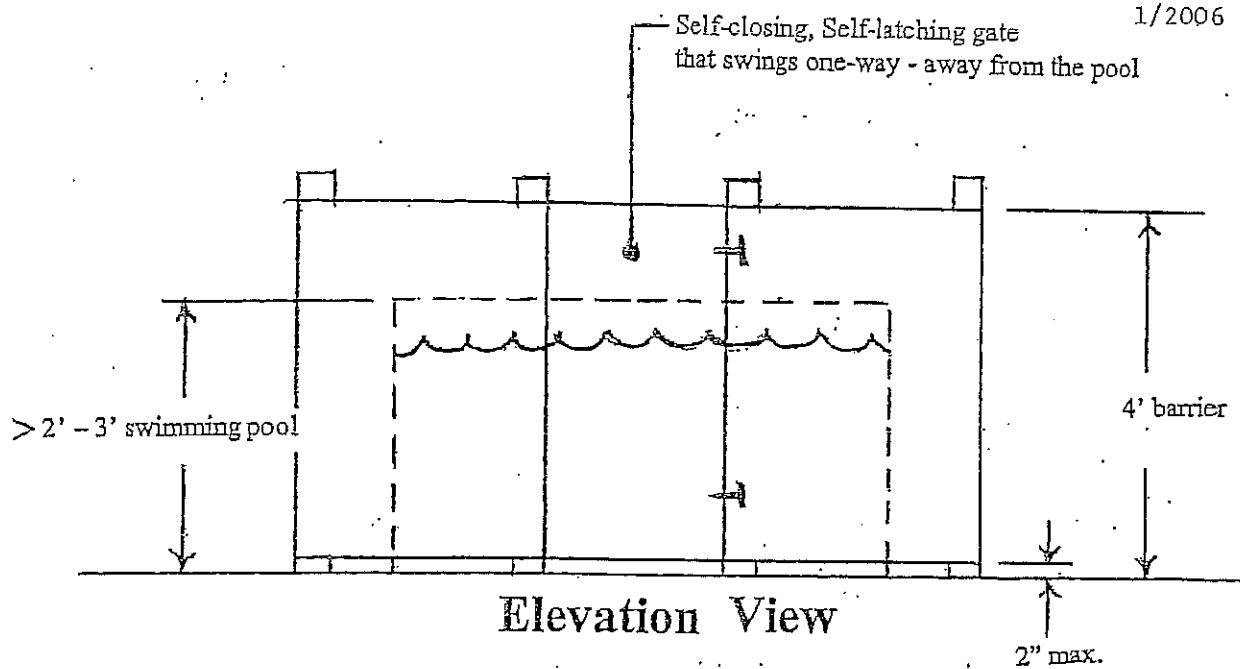
Access gate - optional
(lawn mower & big
equipment)

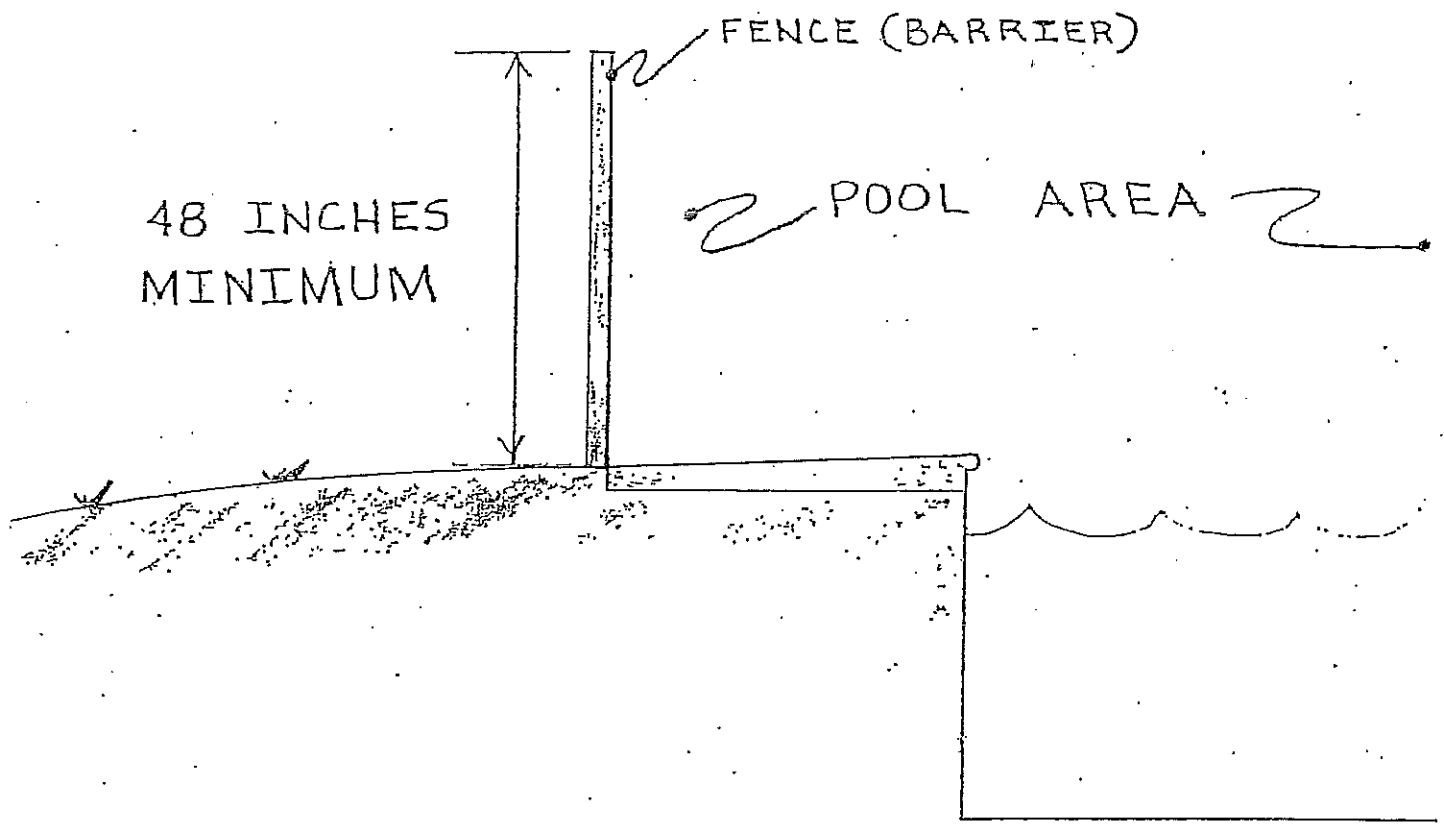
SELF - Latching and lockable

Plan View

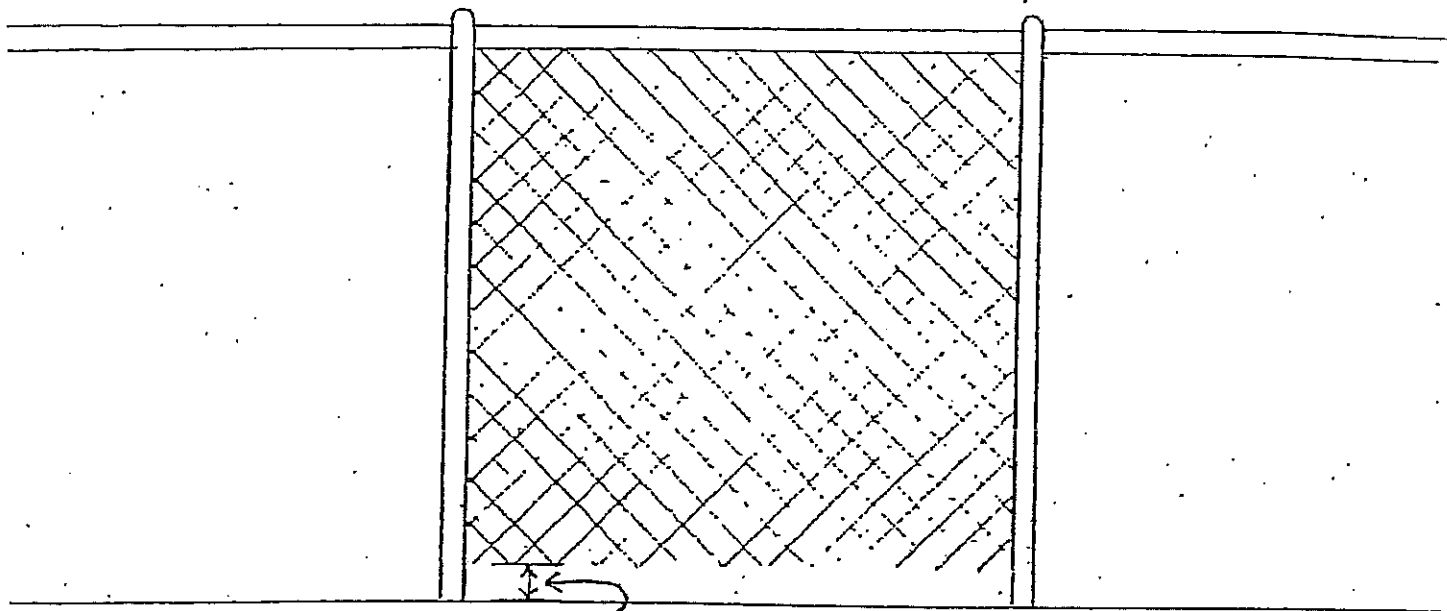
House

8/2001
1/2006





CROSS SECTION

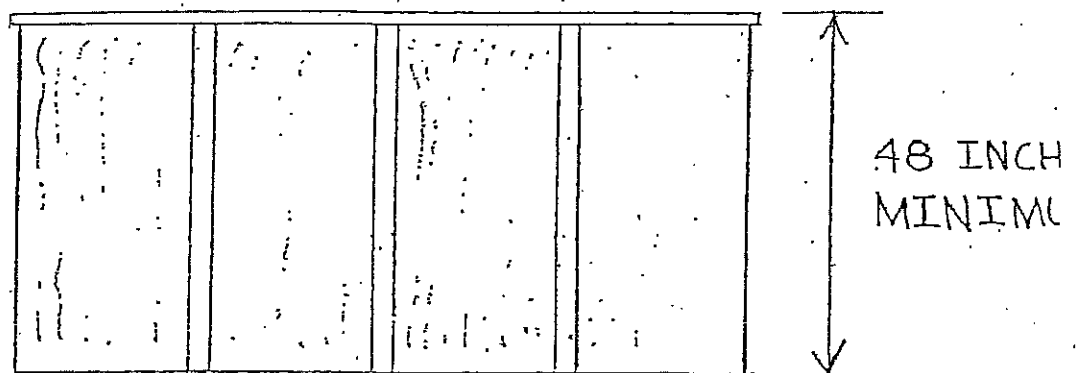


2 INCHES MAXIMUM

OUTSIDE OF THE POOL ENCLOSURE

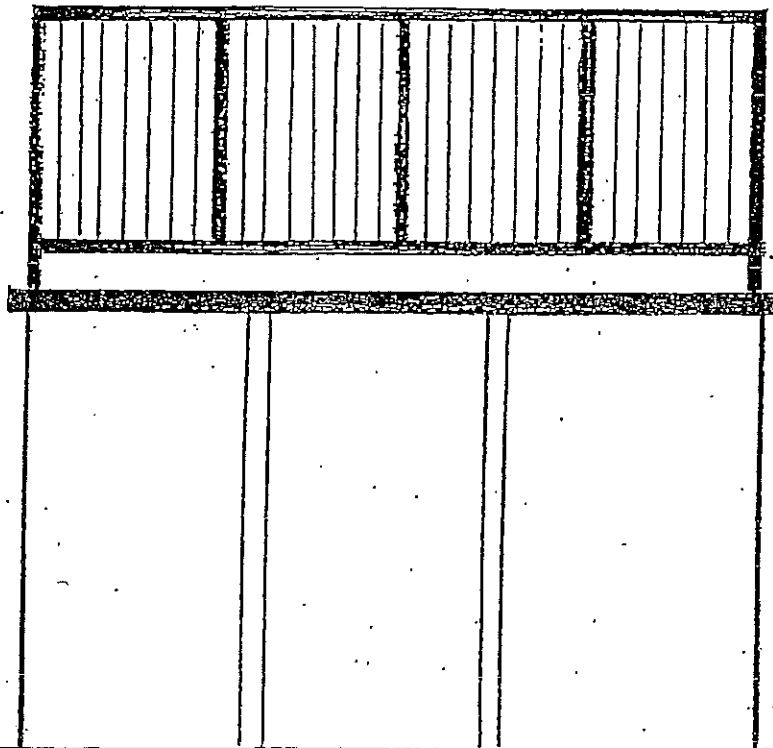
ELEVATION

THE ABOVE GROUND SWIMMING POOL STRUCTURE
COULD BE THE BARRIER IF:



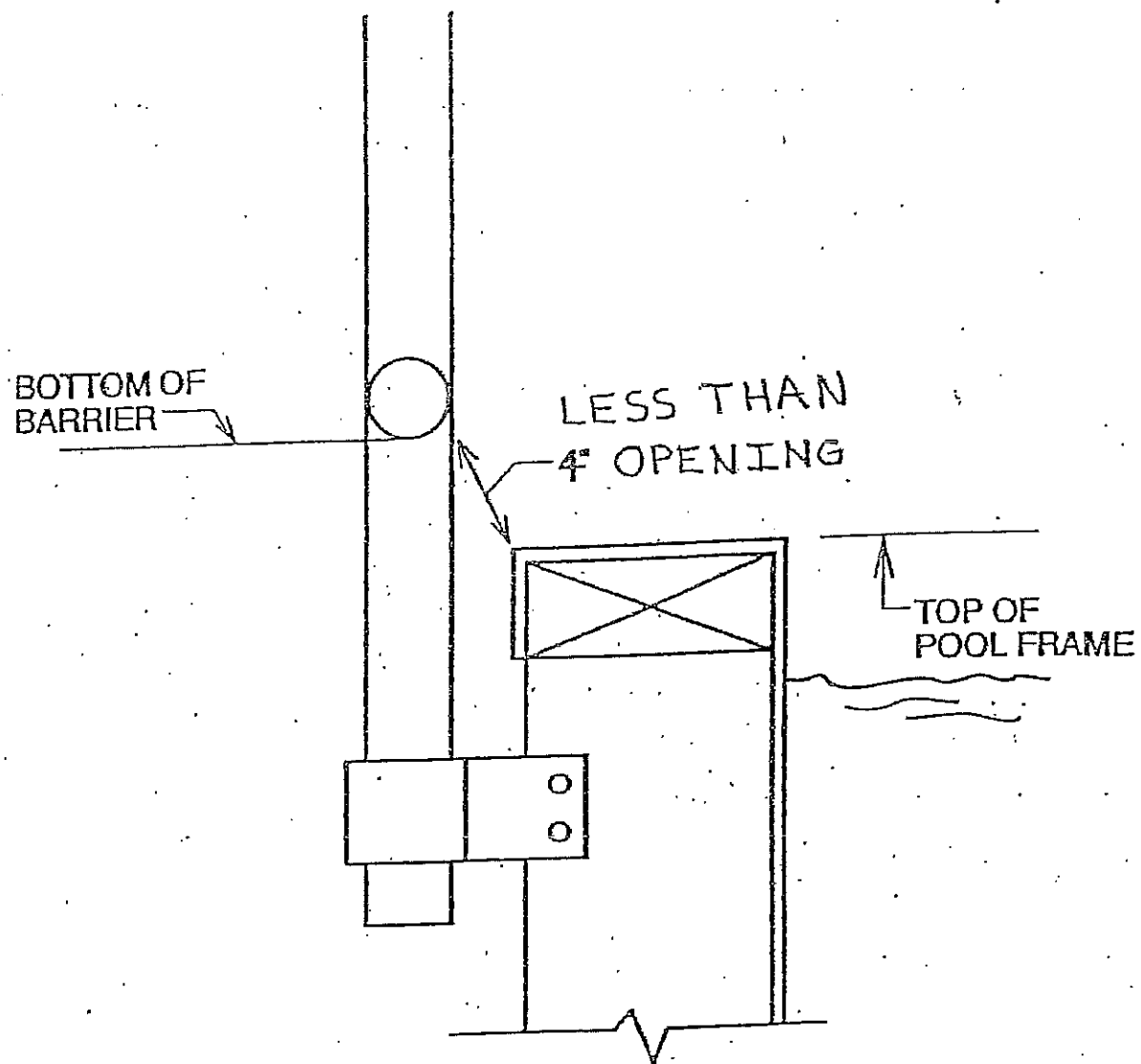
ABOVE GROUND POOL

ELEVATION



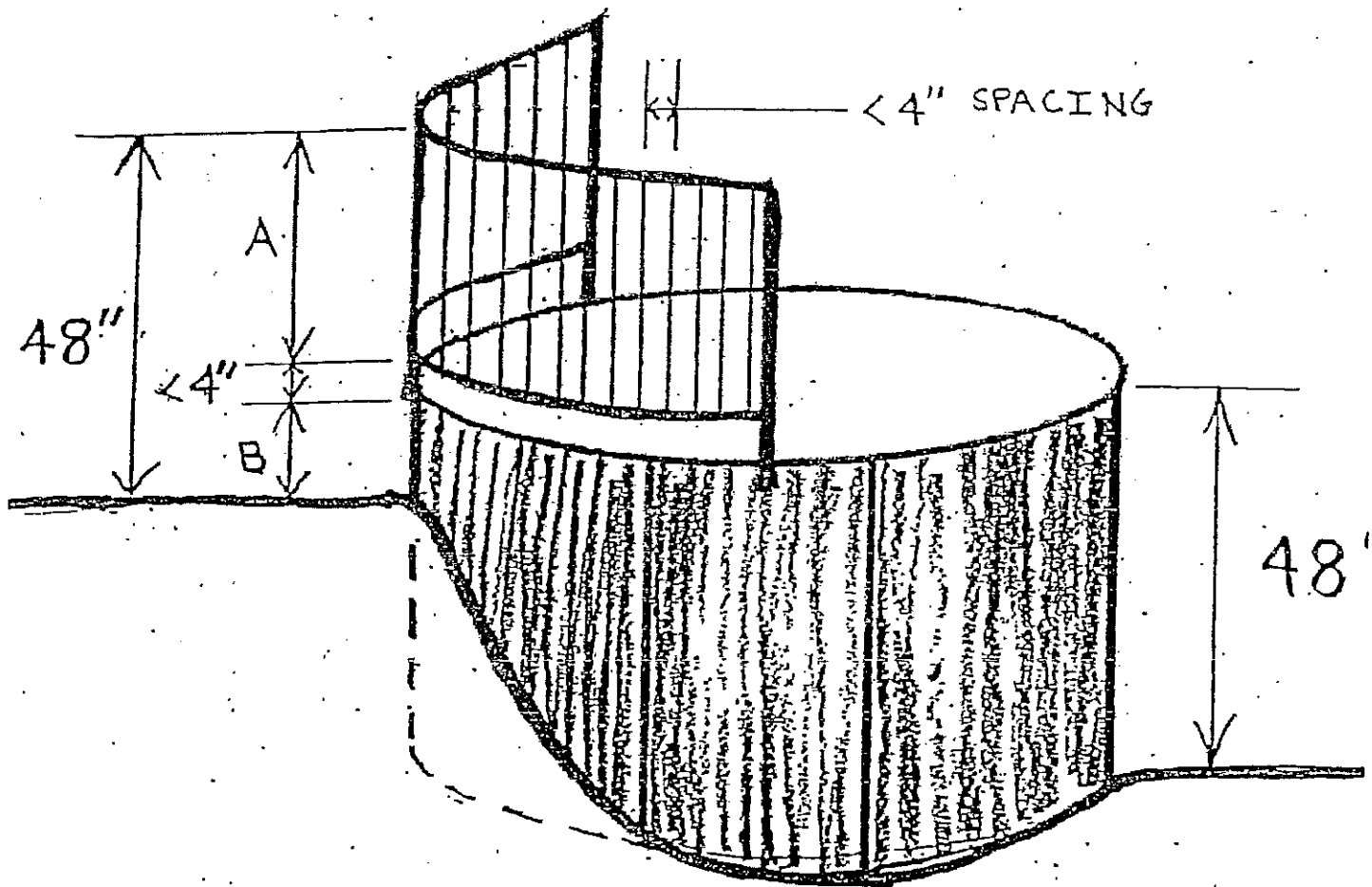
ABOVE GROUND POOL

ELEVATION



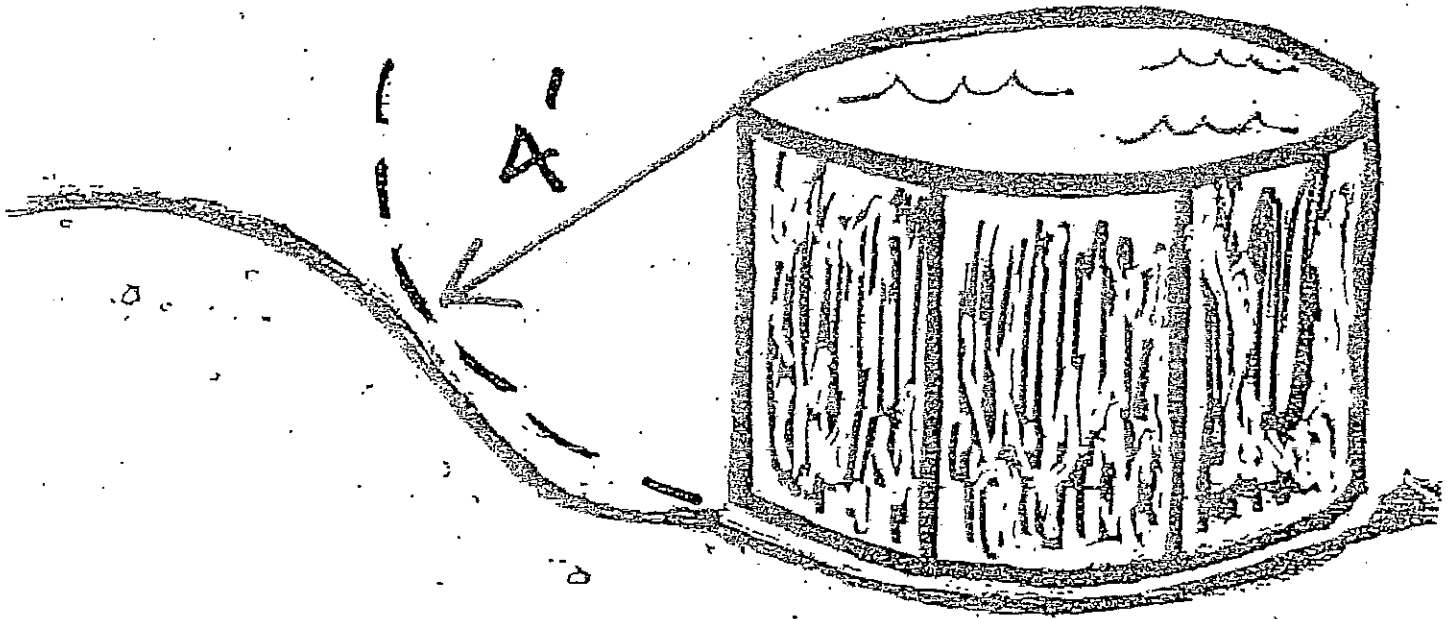
BARRIER MOUNTED ON THE POOL STRUCTURE

CROSS SECTION



ELEVATION

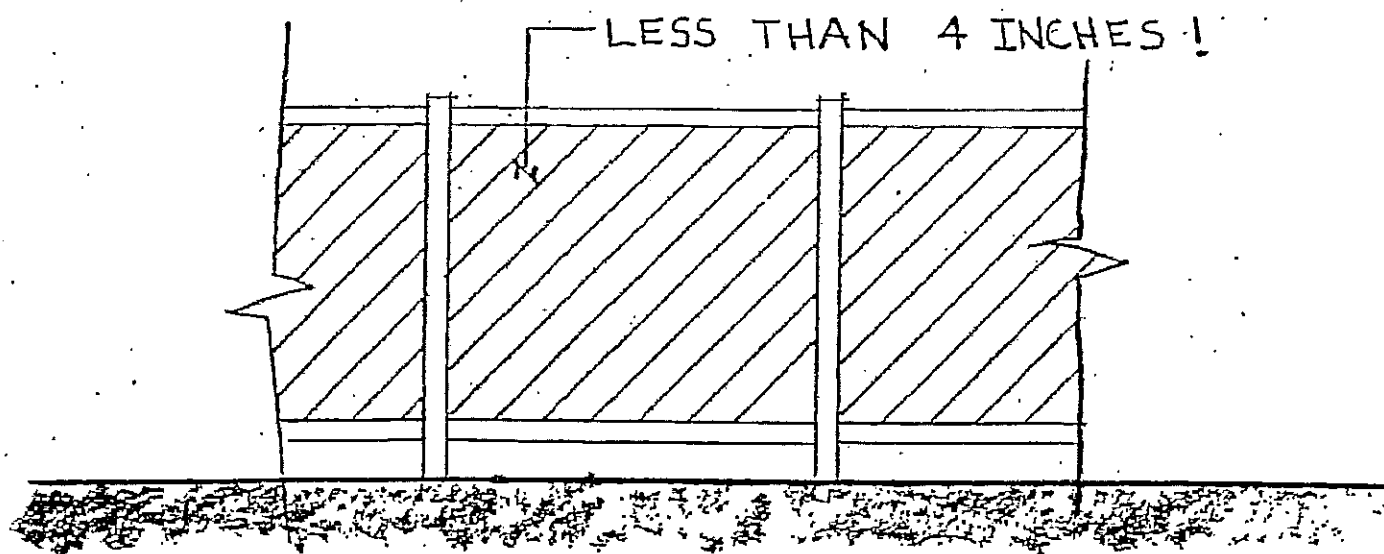
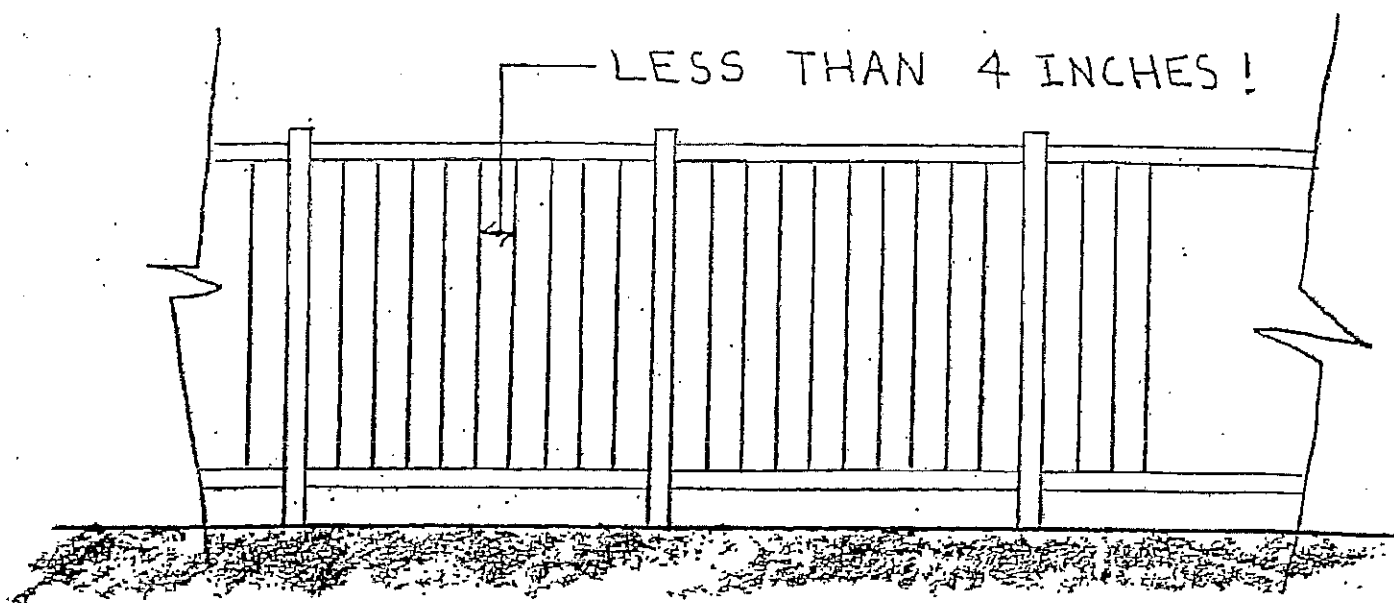
NOT AN ACCEPTABLE SWIMMING POOL BARRIER. VERTICAL AND HORIZONTAL SPACING REQUIREMENTS ARE NOT IN COMPLIANCE. ONE POSSIBLE SOLUTION IS TO HAVE THE BARRIER ON TOP OF THE POOL A MINIMUM OF 48" WITH PROPER VERTICAL SPACING.



ELEVATION

ACCEPTABLE SWIMMING POOL BARRIER. PROVIDED THE ABOVE GROUND SWIMMING POOL IS A MINIMUM 4 FEET ABOVE THE GROUND. REMOVE ANY GROUND WITHIN A 4 FOOT RADIUS.

ADDED - 5/10/02



ELEVATION

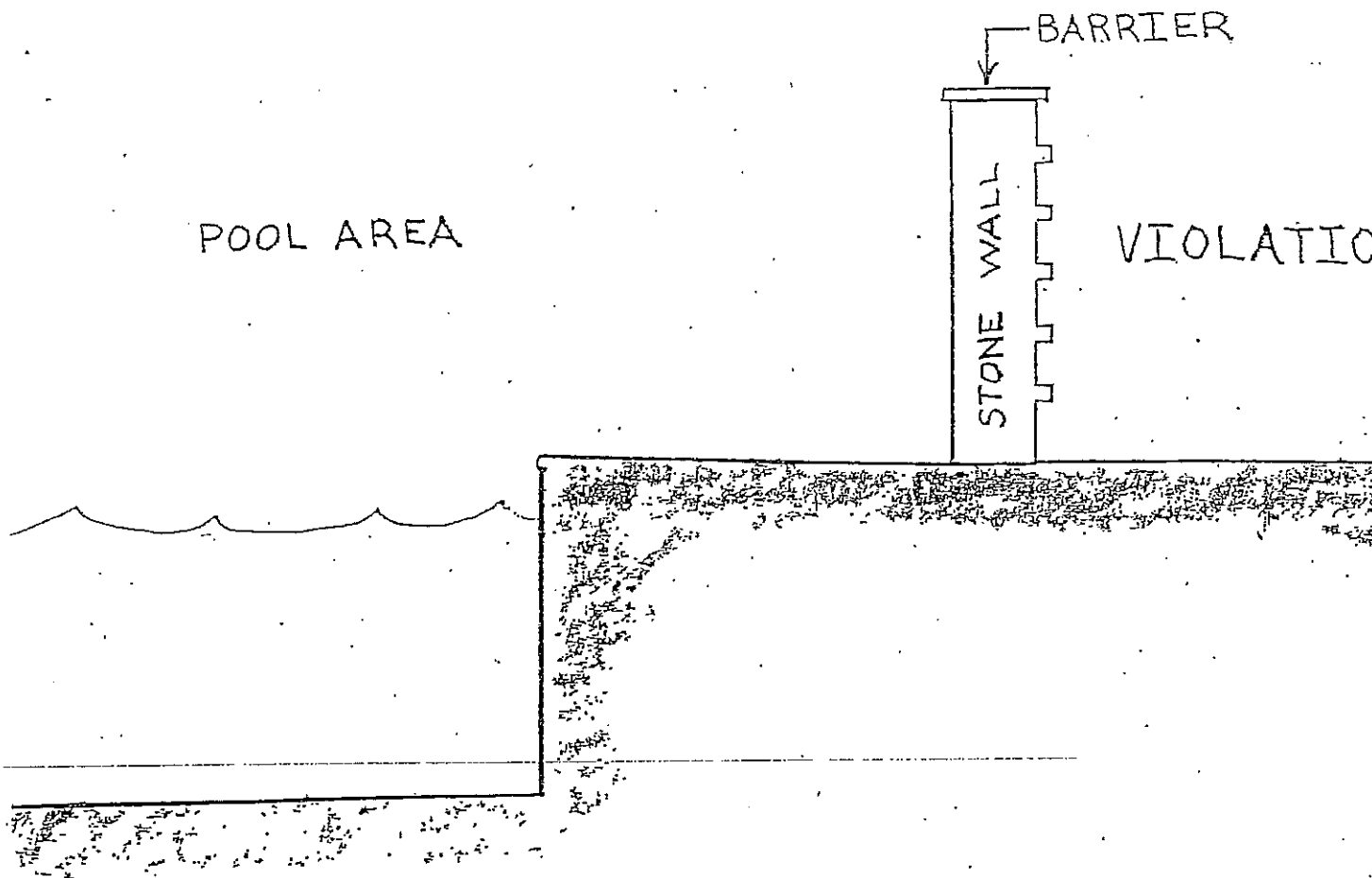
POOL AREA

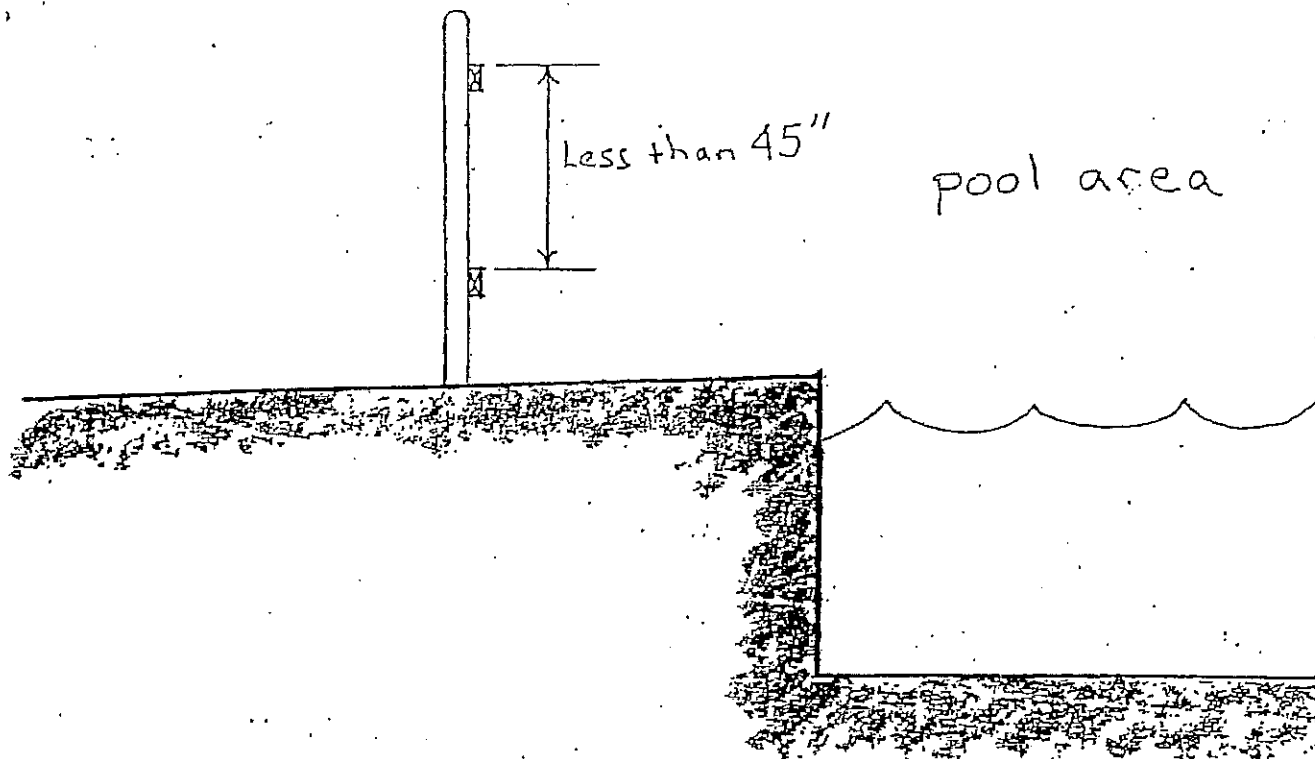
BARRIER

STONE WALL

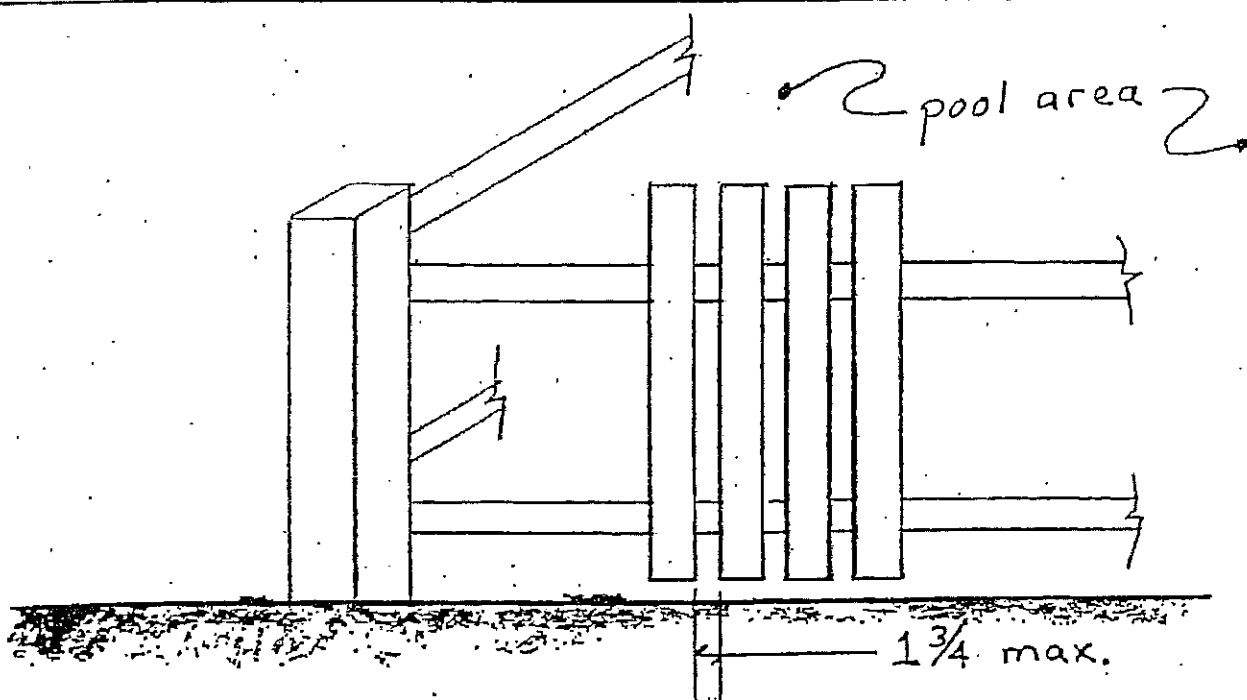
VIOLATION

CROSS SECTION

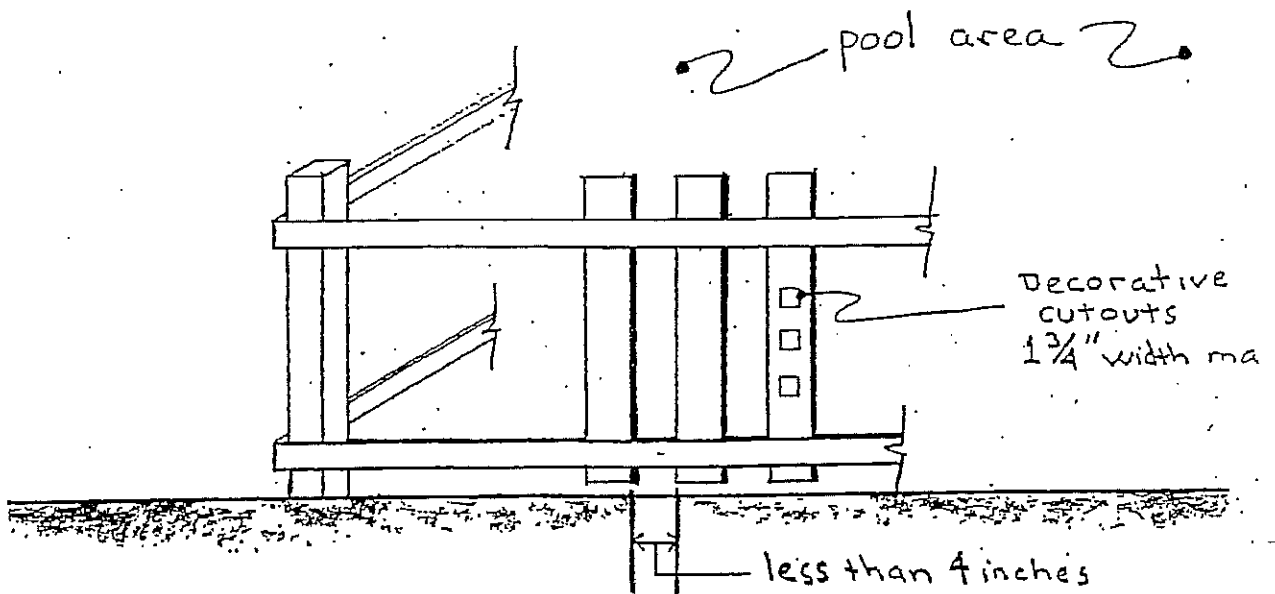
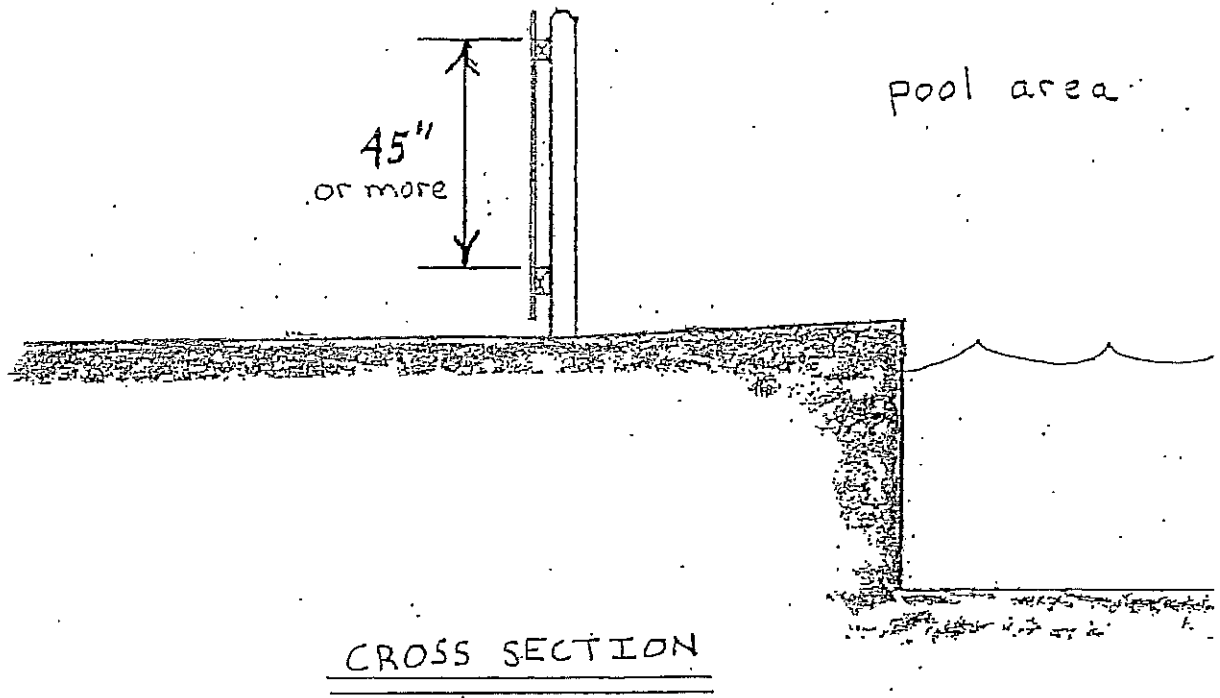




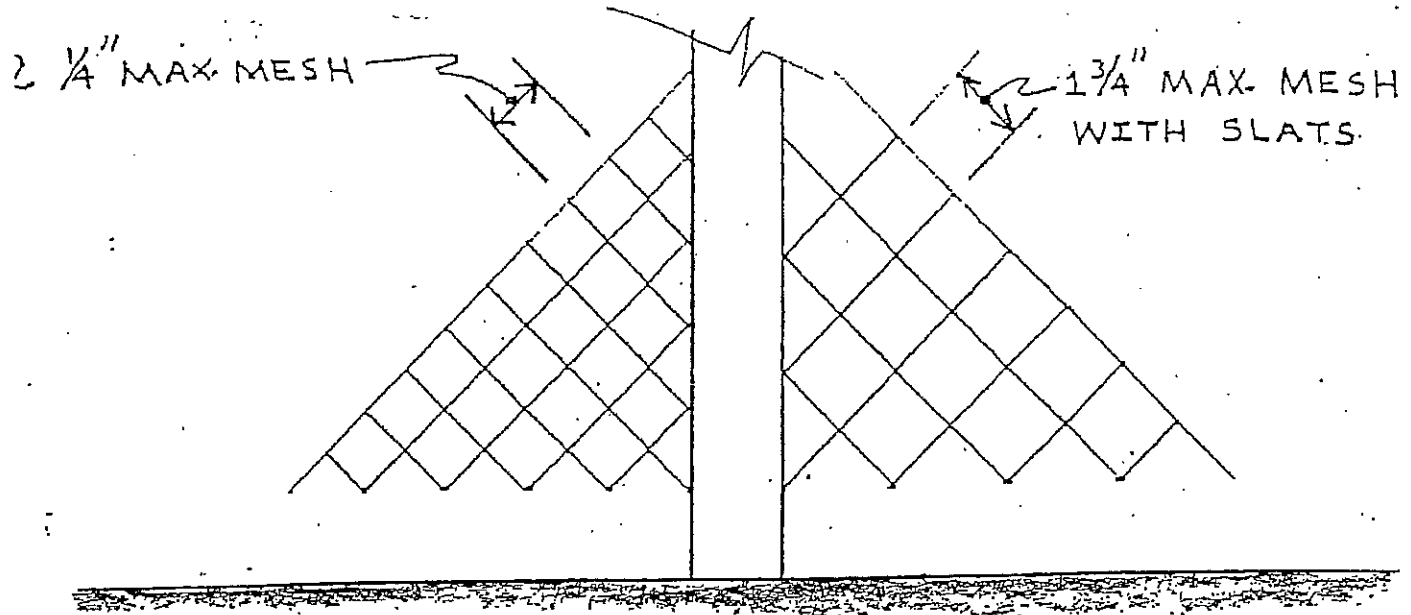
CROSS SECTION



ISOMETRIC

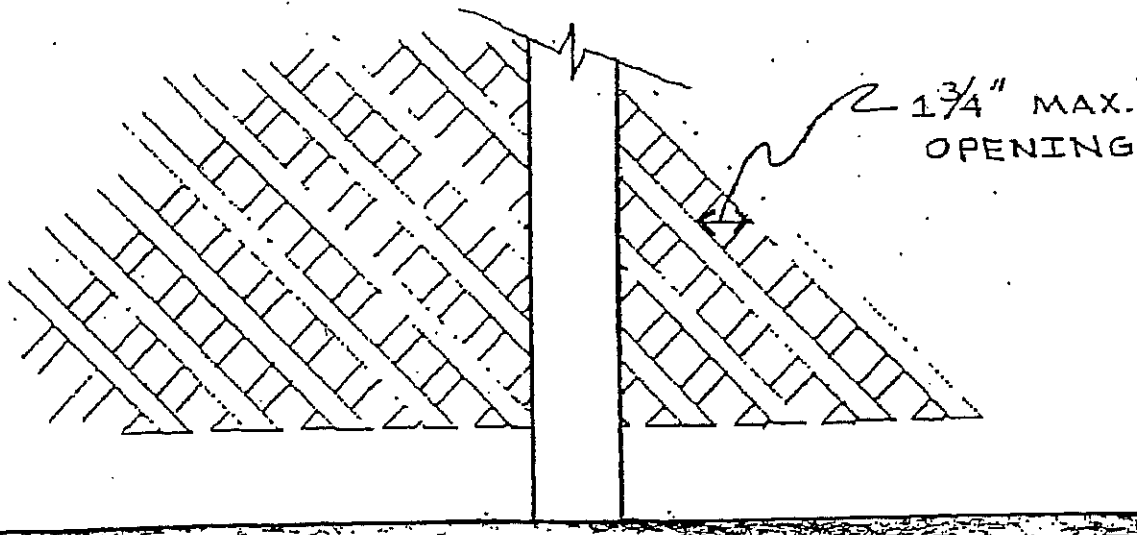


CHAIN LINK FENCE



ELEVATION

LATTICE FENCE



ELEVATION

ACCESS GATE OTHER
THAN PEDESTRIAN
ACCESS GATE



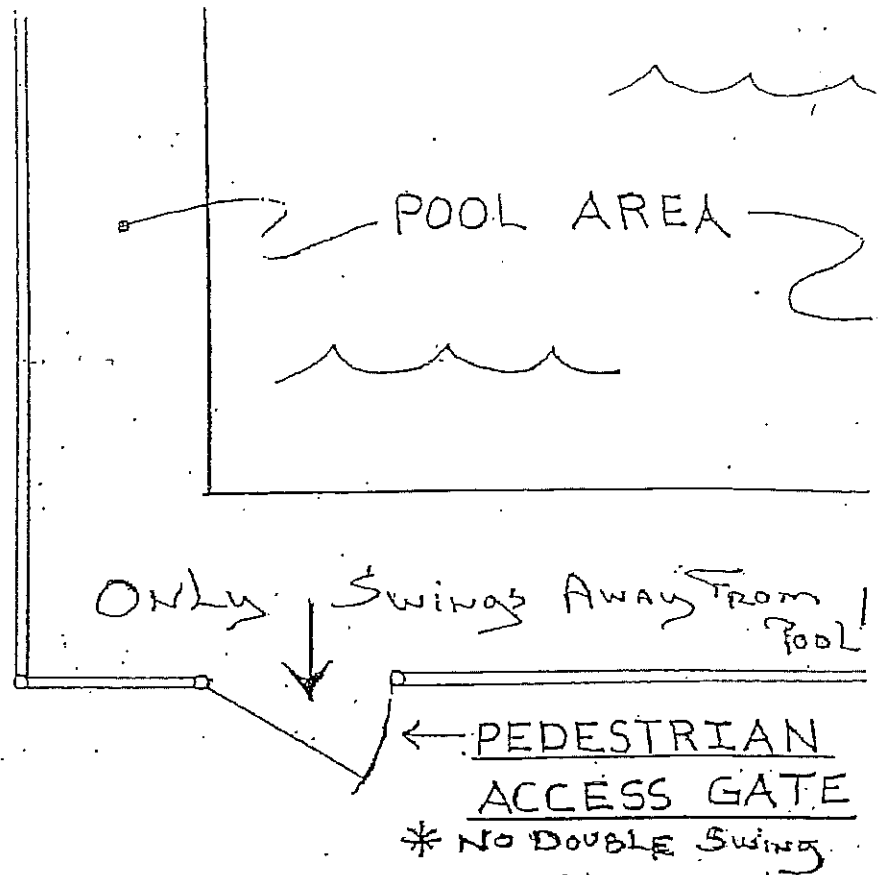
HOUSE

POOL AREA

SHALL: COMPLY

- EQUIPPED TO ACCOMODATE A
LOCKING DEVICE,
- SELF-LATCHING.

SITE PLAN



SHALL: COMPLY

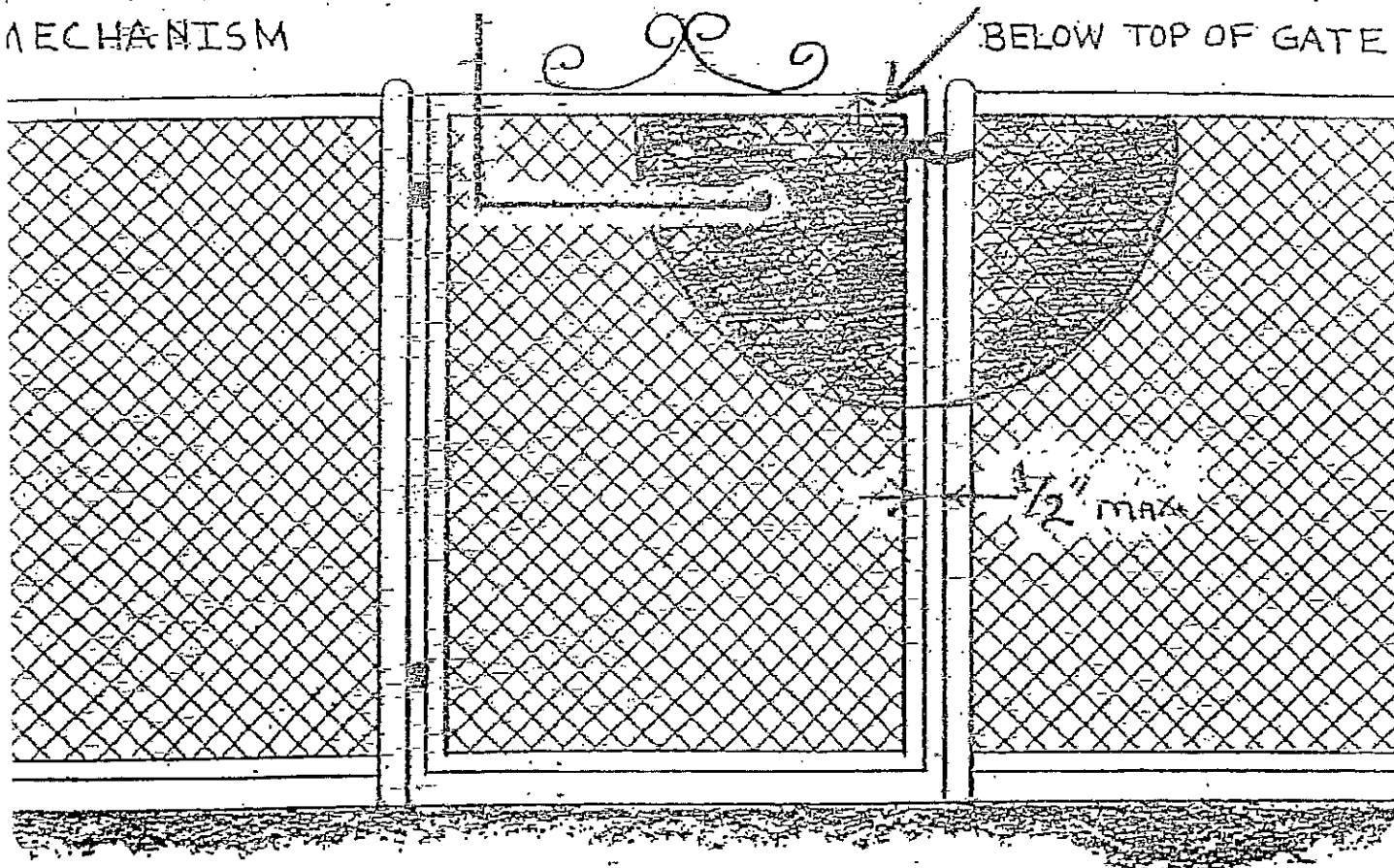
- EQUIPPED TO ACCOMODATE A LOCKING DEVICE,
- OPEN OUTWARDS AWAY FROM POOL,
- SELF-CLOSING,
- SELF-LATCHING.

SITE PLAN

ACCESS GATE OR PEDESTRIAN ACCESS GATE

1/2" MAXIMUM OPENING WITHIN
18" OF THE RELEASE
MECHANISM

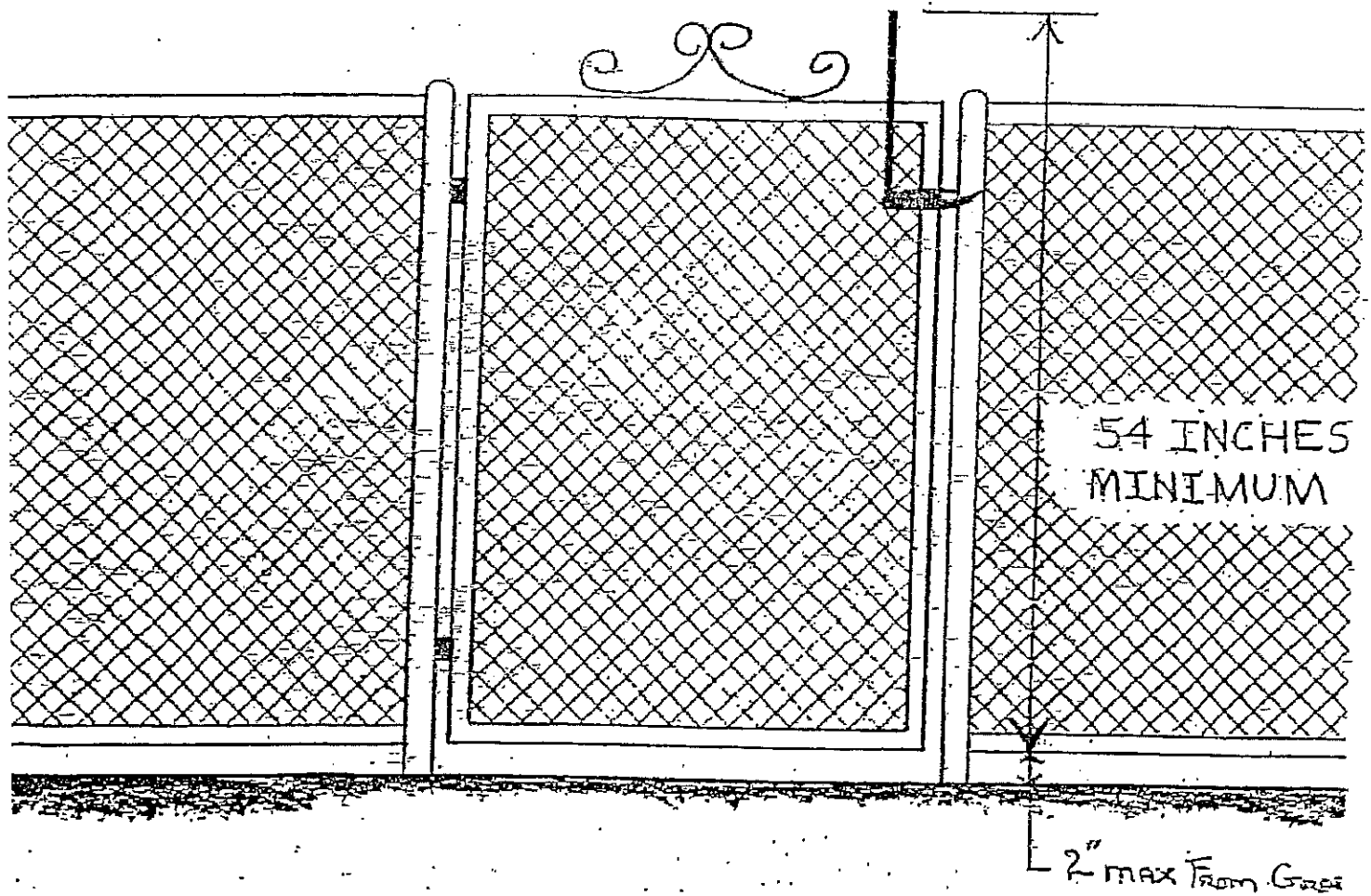
3" MINIMUM
BELOW TOP OF GATE



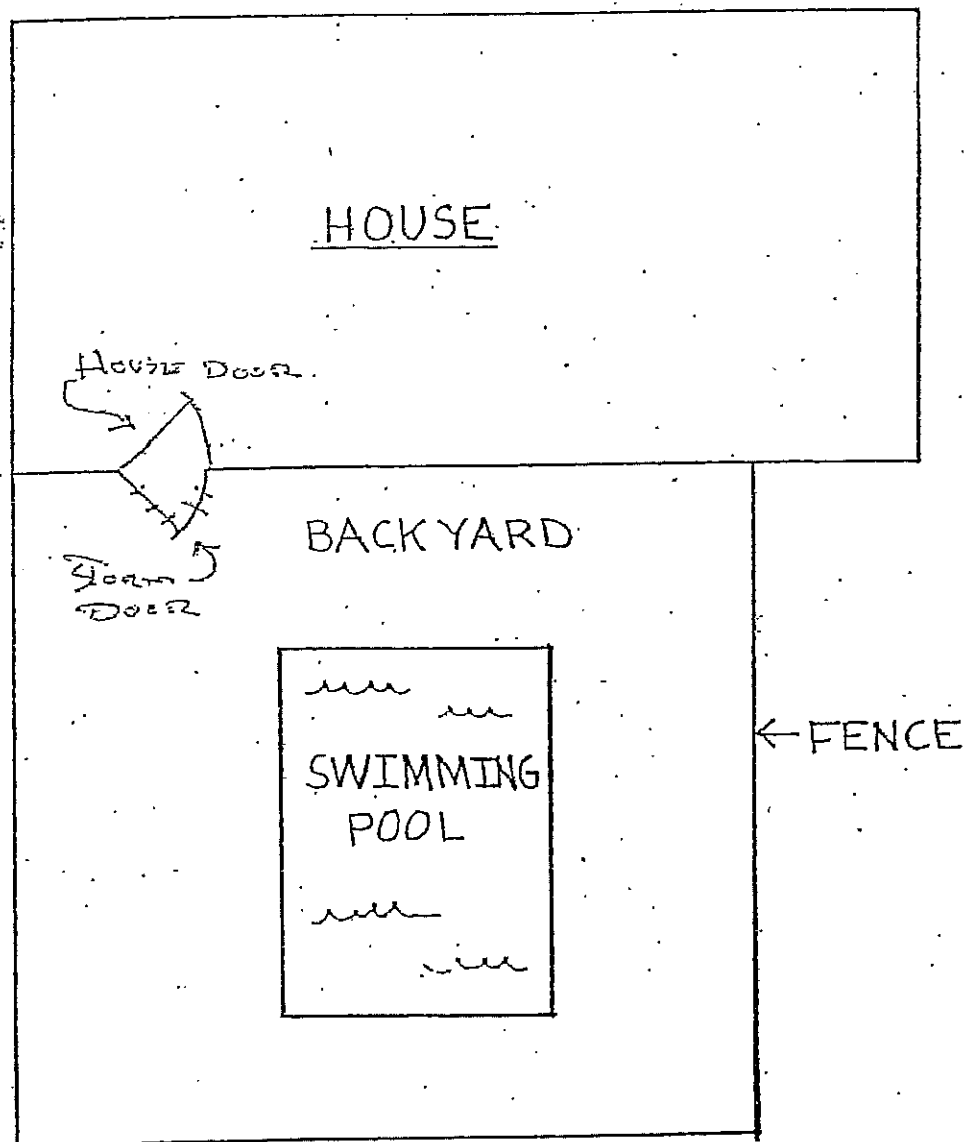
INSIDE POOL AREA ONLY

ELEVATION

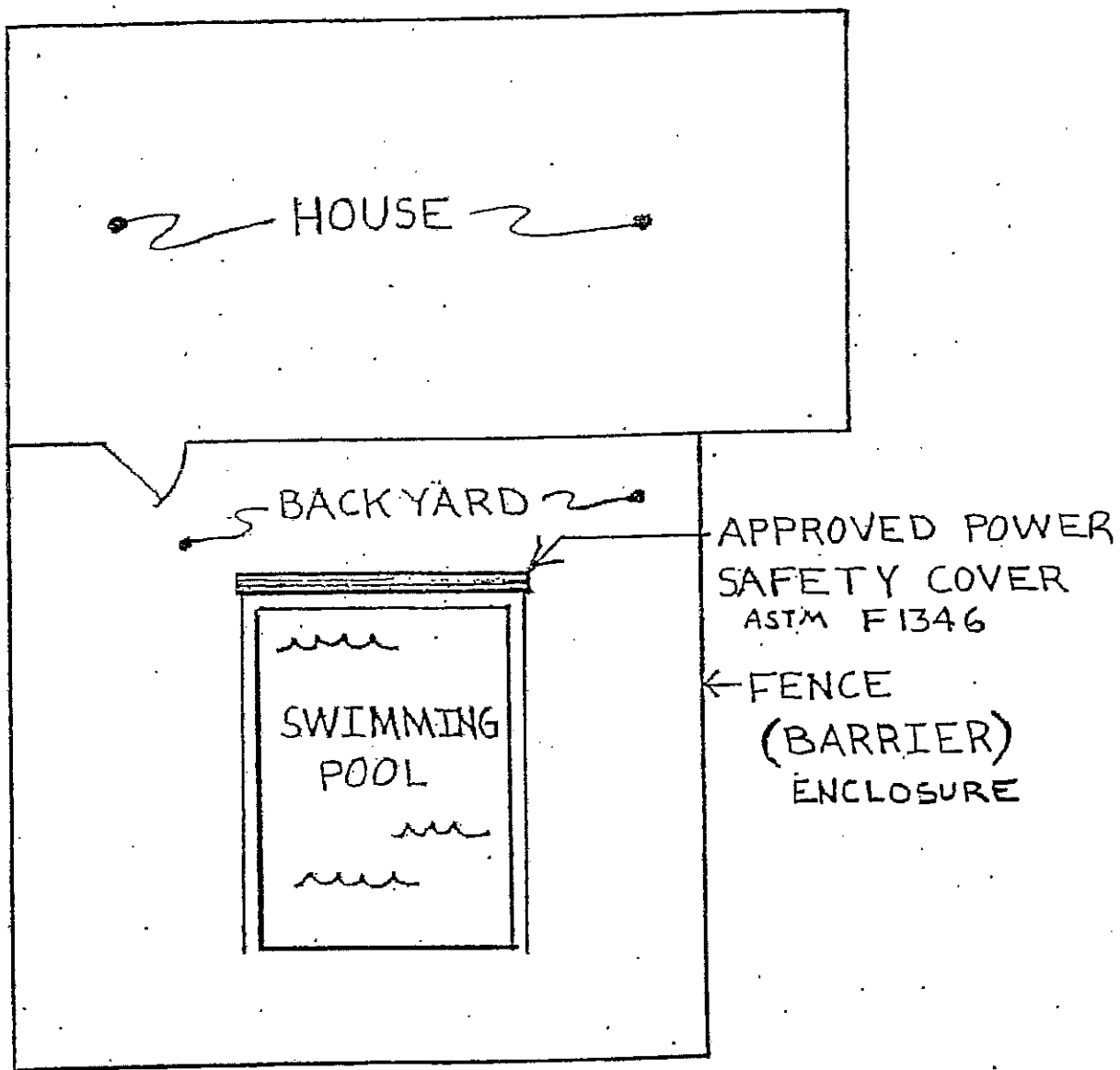
ACCESS GATE OR PEDESTRIAN ACCESS GATE



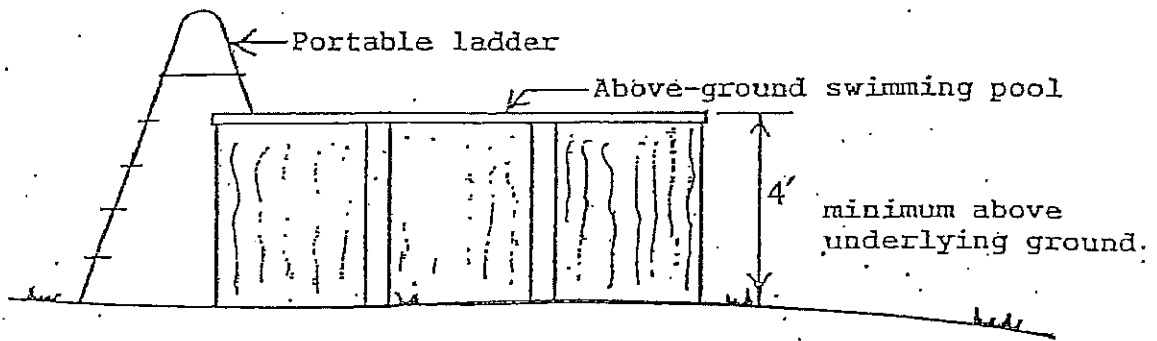
ELEVATION



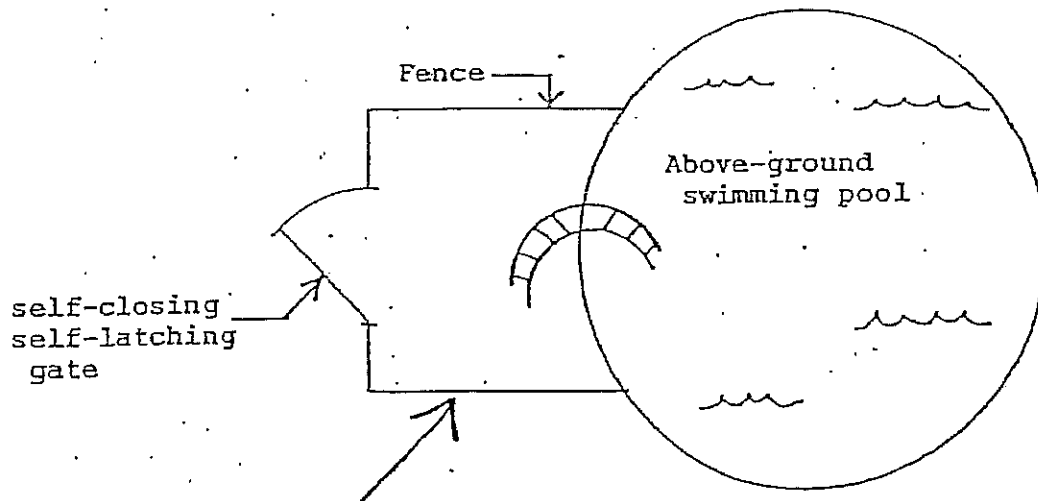
SITE PLAN



SITE PLAN



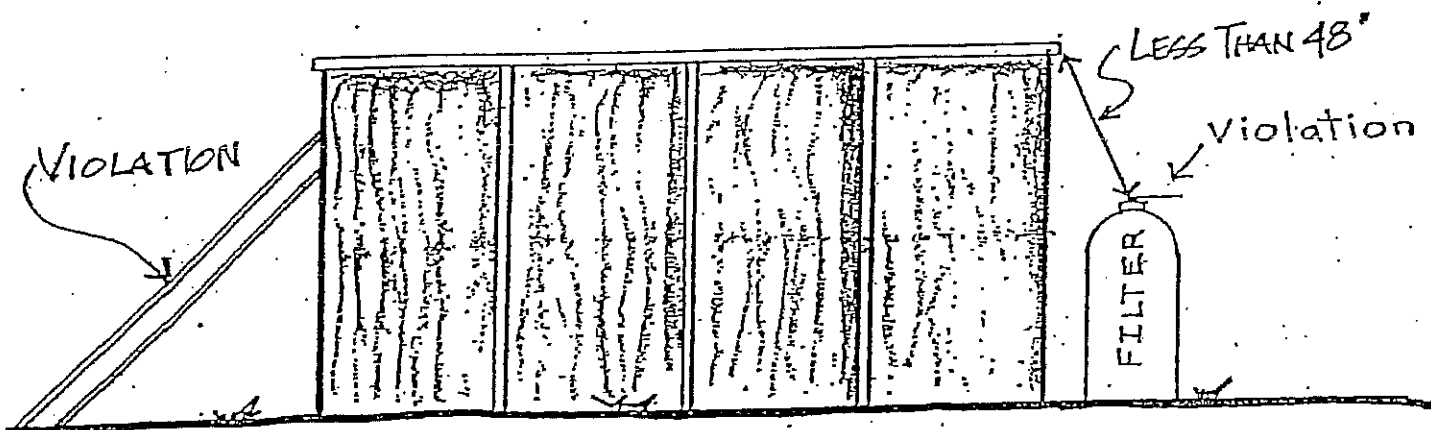
ELEVATION



SITE PLAN

"PROHIBITED LOCATIONS"

ABOVE GROUND SWIMMING POOL



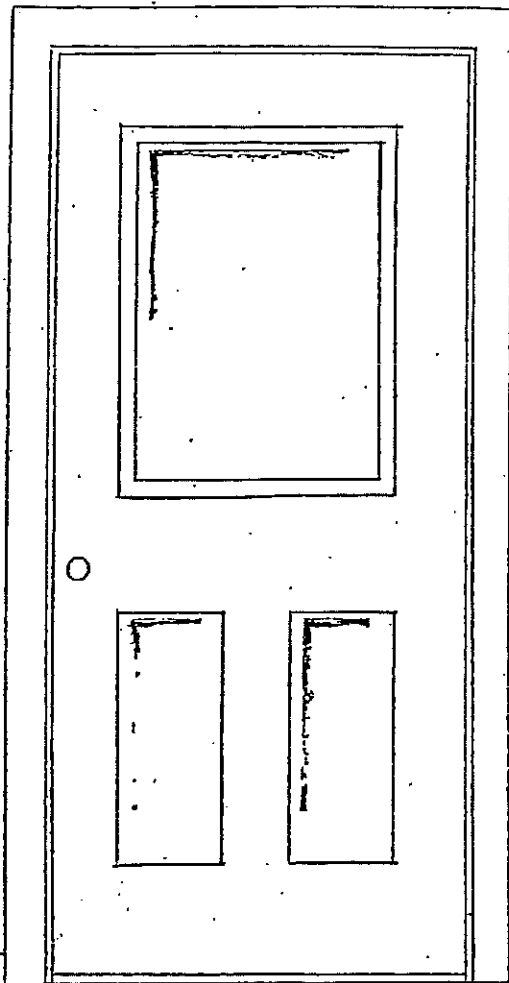
ELEVATION

ADDED - 5/10/02

ALARM
DEACTIVATION SWITCH
OR TOUCHPAD

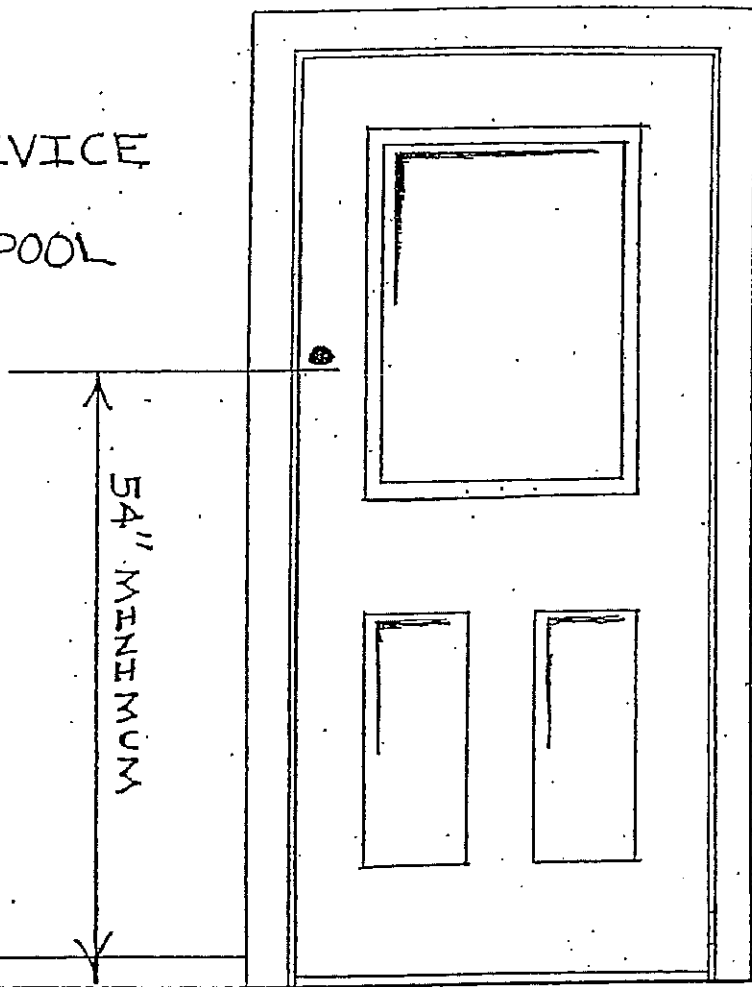


54" MINIMUM



ELEVATION

SELF-CLOSING AND
SELF-LATCHING DEVICE
SWING AWAY FROM POOL



ELEVATION

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More doing.

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Tool & Truck Rental | Installation Services and Repair | Gift Cards | Help

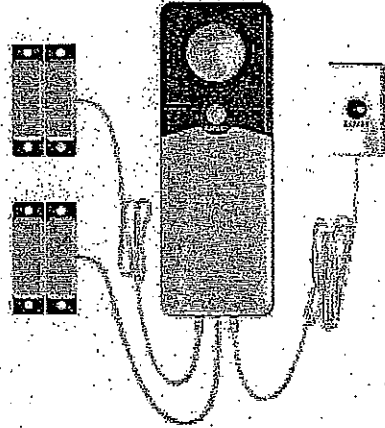
TECHKO Wireless Ultra Slim Safe Pool Alarm

Model # S189D Internet # 204482850

★★★★★ Write the First Review

\$34.99 /each

PRODUCT SOLD: Online Only
Item cannot be shipped to the following state(s): GU,PR,VI



PRODUCT OVERVIEW

The Techko S189D Ultra Slim Pool Safety and Entry Alarm is an ETL listed and approved under UL 2017 standards. This child safety pool alarm is designed to sound a loud alert when a door or gate is opened. It is a simple solution for alerting you whenever your children and others enter and leave the pool area. This unit includes two pairs of magnetic contact sensors and a remote bypass button, ideal for pool areas with two gate or door entrances.

2014

Poolguard Door Alarm with Wireless Passthrough - NO Delay DAPT-WT

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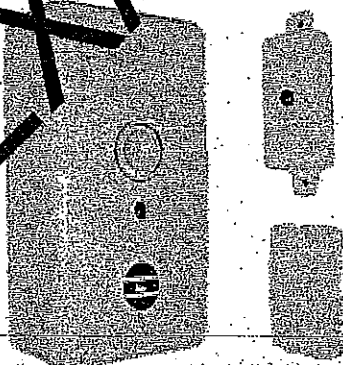
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Poolguard Door Alarm with Wireless Passthrough - NO Delay DAPT-WT

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Availability: In Stock. Order by 2pm EST for same-business-day shipping.

SKU: DAPT-WT

Regular Price: \$79.95

Overview

POOLGUARD/PBM INDUSTRIES, INC. has been manufacturing pool alarms, door alarms, and gate alarms since 1982. All Poolguard products are proudly Made in the USA. Poolguard Door Alarms comply with all building codes and are UL Listed under UL 2017. The majority of children that drown in pools go out the back door first and Poolguard's Door Alarm can help protect those doors.